



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 188266

TO: Nita M Minnifield
Location: rem-3c01/3c18
Art Unit: 1645
Wednesday, May 10, 2006
Case Serial Number: 08/170344

From: Kristine Hensle
Location: Biotech-Chem Library
REM-1B69
Phone: (571)272-4161

Kristine.Hensle@uspto.gov

Search Notes

Examiner Minnifield,

See attached results. This packet is part 2 of 8.

If you have any questions about this search feel free to contact me at any time.

Thank you for using STIC search services!

Kristine Hensle
Librarian
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OM protein - protein search, using SW model

Run on: May 5, 2006, 04:48:55 ; Search time 20.7 Seconds
(without alignments)
35.946 Million cell updates/sec

Title: US-08-170-344-10
Perfect score: 48
Sequence: 1 PAFRDLCTIV 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Issued Patents_AA:*

- 1: /cgn2_6/prodata/1/1aa/5-COMB.pep:*
- 2: /cgn2_6/prodata/1/1aa/6-COMB.pep:*
- 3: /cgn2_6/prodata/1/1aa/H-COMB.pep:*
- 4: /cgn2_6/prodata/1/1aa/RE-COMB.pep:*
- 5: /cgn2_6/prodata/1/1aa/RE-COMB.pep:*
- 6: /cgn2_6/prodata/1/1aa/backfillset1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	48	100.0	9	1 US-08-787-547-103	Sequence 103, App
2	48	100.0	9	2 US-08-197-484-67	Sequence 67, App1
3	48	100.0	9	4 PCT-US95-02121-67	Sequence 67, App1
4	48	100.0	22	2 US-09-980-523A-6	Sequence 276, App
5	48	100.0	23	2 US-09-601-729-276	Sequence 18, App1
6	48	100.0	151	2 US-09-701-080C-18	Sequence 2, App1
7	48	100.0	158	2 US-09-980-523A-2	Sequence 3, App1
8	48	100.0	162	1 US-08-316-239B-3	Sequence 4, App1
9	48	100.0	162	1 US-08-316-239B-4	Sequence 14, App1
10	48	100.0	172	2 US-08-860-165-14	Sequence 14, App1
11	48	100.0	172	2 US-09-359-382-14	Sequence 1, App1
12	48	100.0	243	2 US-09-462-993-1	Sequence 10, App1
13	48	100.0	266	2 US-08-860-165-10	Sequence 10, App1
14	48	100.0	266	2 US-09-359-382-10	Sequence 10, App1
15	48	100.0	266	2 US-09-485-885-10	Sequence 1, App1
16	48	100.0	273	2 US-09-367-309A-1	Sequence 4, App1
17	48	100.0	292	2 US-09-485-885-10	Sequence 10, App1
18	48	100.0	371	2 US-09-485-885-6	Sequence 6, App1
19	48	100.0	380	2 US-09-485-885-14	Sequence 14, App1
20	47	97.9	182	1 US-08-117-083-10	Sequence 10, App1
21	43	89.6	20	1 US-08-934-915-161	Sequence 161, App
22	40	83.3	14	1 US-07-909-122-4	Sequence 160, App
23	37	77.1	162	2 US-09-489-847-160	Sequence 320, App
24	37	77.1	207	2 US-09-489-847-320	Sequence 7, App1
25	37	77.1	482	2 US-09-999-833A-7	Sequence 7, App1
26	37	77.1	492	2 US-10-020-445A-7	Sequence 6312, Ap
27	35	72.9	411	2 US-09-949-016-6312	Sequence 6312, Ap

28	72.9	414	2	US-09-949-016-9493	Sequence 9493, Ap
29	70.8	263	2	US-08-776-059-43	Sequence 43, App1
30	70.8	263	2	US-09-627-165E-10	Sequence 10, App1
31	70.8	263	2	US-09-627-165E-12	Sequence 12, App1
32	70.8	263	2	US-09-601-667C-6	Sequence 6, App1
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34	70.8	264	2	US-09-601-667C-3	Sequence 3, App1
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39	70.8	264	2	US-09-601-667C-11	Sequence 11, App1
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41	70.8	531	2	US-09-601-667C-4	Sequence 4, App1
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53	68.8	3074	2	US-09-543-681A-5508	Sequence 5508, Ap
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55	66.7	133	2	US-09-270-767-31721	Sequence 37721, A
56	66.7	231	2	US-09-270-767-52938	Sequence 52938, A
57	66.7	231	2	US-09-270-767-61639	Sequence 61639, A
58	66.7	274	2	US-09-614-912-160	Sequence 160, App
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64	66.7	420	2	US-08-795-876-33	Sequence 33, App1
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66	66.7	436	2	US-08-795-876-2	Sequence 2, App1
67	66.7	598	2	US-09-270-767-46086	Sequence 46086, A
68	66.7	685	2	US-09-443-780C-13	Sequence 13, App1
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70	66.7	692	2	US-09-949-016-5928	Sequence 5928, Ap
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83	64.6	376	2	US-09-352-991A-24606	Sequence 24606, A
84	64.6	394	2	US-09-107-433-5185	Sequence 5185, Ap
85	64.6	415	2	US-09-328-352-4763	Sequence 4763, Ap
86	64.6	75	2	US-09-513-999C-5023	Sequence 5023, Ap
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88	62.5	103	1	US-08-448-561-4	Sequence 4, App1
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91	62.5	122	2	US-09-270-767-52977	Sequence 52977, A
92	62.5	136	2	US-09-270-767-61140	Sequence 61140, A
93	62.5	140	2	US-09-621-976-5855	Sequence 5855, Ap
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102	30	62.5	204	2	US-09-230-371A-26	Sequence 26, Appl	175	28	58.3	66	2	US-09-328-352-6925	Sequence 6925, Ap
103	30	62.5	218	2	US-09-198-452A-282	Sequence 282, App	176	28	58.3	67	2	US-09-328-352-7423	Sequence 7423, Ap
104	30	62.5	227	2	US-09-270-767-3303	Sequence 32303, A	177	28	58.3	70	2	US-09-894-882-161	Sequence 161, App
105	30	62.5	292	2	US-09-438-185A-272	Sequence 272, App	178	28	58.3	71	2	US-09-107-423-4429	Sequence 4429, Ap
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107	30	62.5	361	2	US-09-248-796A-14778	Sequence 14778, A	180	28	58.3	74	2	US-09-387-671-8	Sequence 8, Appl1
108	30	62.5	364	2	US-09-252-991A-19881	Sequence 19881, A	181	28	58.3	74	2	US-09-651-665-8	Sequence 8, Appl1
109	30	62.5	399	2	US-09-489-039A-14312	Sequence 14312, A	182	28	58.3	76	2	US-09-621-976-6064	Sequence 6064, Ap
110	30	62.5	474	2	US-09-315-444-116	Sequence 116, App	183	28	58.3	84	2	US-09-489-847-157	Sequence 157, App
111	30	62.5	474	2	US-09-721-362-116	Sequence 116, App	184	28	58.3	92	2	US-09-489-847-319	Sequence 319, App
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116	30	62.5	688	2	US-09-538-092-388	Sequence 53190, A	189	28	58.3	152	2	US-09-270-767-42726	Sequence 42726, Ap
117	30	62.5	913	2	US-09-487-558B-378	Sequence 388, App	190	28	58.3	185	2	US-09-270-767-57496	Sequence 57496, A
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119	30	62.5	997	2	US-09-369-364A-7	Sequence 29362, A	192	28	58.3	197	2	US-09-270-767-48637	Sequence 48637, A
120	30	62.5	2942	2	US-09-902-540-9733	Sequence 7, Appl1	193	28	58.3	198	2	US-09-489-039A-9420	Sequence 9420, Ap
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122	29	60.4	62	1	US-08-858-830-5	Sequence 5, Appl1	195	28	58.3	205	2	US-09-252-991A-25778	Sequence 25778, A
123	29	60.4	62	1	US-08-858-834-5	Sequence 5, Appl1	196	28	58.3	205	2	US-09-270-767-44526	Sequence 44526, A
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125	29	60.4	69	2	US-09-270-767-55233	Sequence 55233, A	198	28	58.3	209	2	US-09-771-161A-94	Sequence 94, Appl1
126	29	60.4	109	2	US-09-071-035-194	Sequence 194, App	199	28	58.3	235	2	US-09-248-796A-17542	Sequence 17542, A
127	29	60.4	109	2	US-10-206-576-194	Sequence 194, App	200	28	58.3	236	2	US-09-328-352-6478	Sequence 6478, Ap
128	29	60.4	116	2	US-09-248-796A-25995	Sequence 25995, A	201	28	58.3	257	2	US-09-328-352-5511	Sequence 5511, Ap
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130	29	60.4	123	2	US-09-134-000C-4445	Sequence 4445, Ap	203	28	58.3	264	2	US-08-444-189-16	Sequence 16, Appl
131	29	60.4	126	2	US-09-621-976-4297	Sequence 4297, Ap	204	28	58.3	264	2	US-08-468-544-16	Sequence 16, Appl
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134	29	60.4	150	2	US-10-142-835-6	Sequence 6, Appl1	207	28	58.3	295	2	US-09-489-039A-13006	Sequence 13006, A
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137	29	60.4	171	2	US-09-270-767-3778	Sequence 3778, A	210	28	58.3	386	2	US-09-248-796A-17451	Sequence 17451, A
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139	29	60.4	180	2	US-09-270-767-32142	Sequence 32142, A	212	28	58.3	389	2	US-09-685-226-35	Sequence 35, Appl
140	29	60.4	180	2	US-09-270-767-47359	Sequence 47359, A	213	28	58.3	401	2	US-10-142-835-18	Sequence 18, Appl
141	29	60.4	222	2	US-09-949-016-5983	Sequence 5983, Ap	214	28	58.3	401	2	US-10-142-835-20	Sequence 20, Appl
142	29	60.4	223	2	US-09-328-352-7564	Sequence 7564, Ap	215	28	58.3	414	2	US-09-270-767-44771	Sequence 44771, A
143	29	60.4	234	2	US-10-104-047-2791	Sequence 2791, Ap	216	28	58.3	428	2	US-09-270-767-45014	Sequence 45014, A
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146	29	60.4	268	2	US-09-134-000C-3519	Sequence 3519, Ap	219	28	58.3	440	2	US-09-489-039A-1083	Sequence 10833, A
147	29	60.4	305	2	US-09-248-796A-20071	Sequence 20071, A	220	28	58.3	455	2	US-09-270-767-46314	Sequence 46314, A
148	29	60.4	307	2	US-09-489-039A-9062	Sequence 9062, Ap	221	28	58.3	460	1	US-08-351-981-9	Sequence 9, Appl1
149	29	60.4	357	1	US-08-119-773-36	Sequence 36, Appl	222	28	58.3	464	2	US-09-950-022A-2	Sequence 2, Appl1
150	29	60.4	357	2	US-09-874-132-25	Sequence 25, Appl	223	28	58.3	464	2	US-09-950-022A-6	Sequence 6, Appl1
151	29	60.4	367	2	US-09-489-039A-9718	Sequence 9718, Ap	224	28	58.3	464	2	US-09-950-022A-8	Sequence 8, Appl1
152	29	60.4	386	2	US-09-270-767-44120	Sequence 44120, A	225	28	58.3	464	2	US-09-950-022A-8	Sequence 8, Appl1
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156	29	60.4	412	2	US-10-142-835-22	Sequence 22, Appl	229	28	58.3	495	2	US-09-252-991A-19330	Sequence 19330, A
157	29	60.4	417	2	US-09-902-540-11614	Sequence 11614, A	230	28	58.3	511	2	US-09-633-328B-4	Sequence 4, Appl1
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160	29	60.4	538	2	US-09-489-039A-9433	Sequence 9433, Ap	233	28	58.3	532	2	US-09-990-444-381	Sequence 381, App
161	29	60.4	555	2	US-09-890-016-8	Sequence 8, Appl1	234	28	58.3	532	2	US-09-997-333-381	Sequence 381, App
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251	28	58.3	827	2	US-10-101-464A-915	Sequence 915, App	324	27	56.2	163	2	US-09-270-767-47141	Sequence 47141, A
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298	27	56.2	92	2	US-10-313-994-22	Sequence 22, Appl	371	27	56.2	302	2	US-09-210-288-17	Sequence 17, Appl
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336	27	56.2	378	1	US-08-823-516-138	Sequence 138, App	469	27	56.2	604	2	US-09-354-138-84	Sequence 84, Appli
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338	27	56.2	378	2	US-09-381-212-138	Sequence 138, App	471	27	56.2	604	2	US-09-354-138-98	Sequence 98, Appli
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413	27	56.2	382	1	US-08-823-516-139	Sequence 139, App	486	27	56.2	675	4	PCT-US95-05008-4	Sequence 4, Appli
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415	27	56.2	382	2	US-09-381-212-139	Sequence 139, App	488	27	56.2	714	2	US-09-438-185A-601	Sequence 601, App
416	27	56.2	382	2	US-09-713-601A-139	Sequence 139, App	489	27	56.2	724	2	US-09-328-352-7710	Sequence 7710, Ap
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462	27	56.2	554	2	US-08-904-871-1	Sequence 1, Appli	535	27	56.2	969	2	US-09-252-991A-23580	Sequence 23580, A
463	27	56.2	563	2	US-09-422-936-79	Sequence 79, Appli	536	27	56.2	972	2	US-09-489-039A-11867	Sequence 11867, A
464	27	56.2	571	2	US-09-999-833A-132	Sequence 132, App	537	27	56.2	975	2	US-09-695-461-4	Sequence 4, Appli
465	27	56.2	571	2	US-10-020-445A-132	Sequence 132, App	538	27	56.2	985	2	US-09-248-796A-16090	Sequence 16090, A

539	27	56.2	989	2	US-09-110-517-4	Sequence 4, Appl1	612	27	56.2	2710	1	US-08-487-826B-12	Sequence 12, Appl1
540	27	56.2	1001	2	US-10-415-147-3	Sequence 3, Appl1	613	27	56.2	2710	2	US-09-210-288-12	Sequence 12, Appl1
541	27	56.2	1006	2	US-10-415-147-12	Sequence 12, Appl1	614	27	56.2	2710	2	US-10-153-273-12	Sequence 12, Appl1
542	27	56.2	1013	2	US-09-415-522-8	Sequence 8, Appl1	615	27	56.2	2713	4	PCT-US96-01735-1	Sequence 1, Appl1
543	27	56.2	1013	2	US-09-255-829-18	Sequence 18, Appl1	616	27	56.2	2972	2	US-08-469-260A-387	Sequence 387, App
544	27	56.2	1049	1	US-08-817-090B-2	Sequence 2, Appl1	617	27	56.2	2972	2	US-08-488-446-387	Sequence 387, App
545	27	56.2	1050	1	US-08-817-090B-4	Sequence 4, Appl1	618	27	56.2	2972	2	US-08-467-344A-387	Sequence 387, App
546	27	56.2	1078	1	US-08-485-588-7	Sequence 7, Appl1	619	27	56.2	3060	1	US-08-424-550B-387	Sequence 387, App
547	27	56.2	1078	1	US-08-484-565-7	Sequence 7, Appl1	620	27	56.2	3060	1	US-08-487-826B-14	Sequence 14, Appl1
548	27	56.2	1078	1	US-08-480-751-7	Sequence 7, Appl1	621	26.5	55.2	122	2	US-09-248-796A-23644	Sequence 23644, A
549	27	56.2	1078	1	US-08-943-985-7	Sequence 7, Appl1	622	26.5	55.2	561	1	US-08-221-817-16	Sequence 16, Appl1
550	27	56.2	1078	2	US-08-353-784-7	Sequence 7, Appl1	623	26.5	55.2	561	1	US-08-454-439-16	Sequence 16, Appl1
551	27	56.2	1078	2	US-08-484-719B-7	Sequence 7, Appl1	624	26.5	55.2	561	4	PCT-US94-10487-16	Sequence 105, Appl1
552	27	56.2	1078	2	US-08-484-159-7	Sequence 7, Appl1	625	26.5	55.2	12	1	US-08-752-852A-105	Sequence 48, Appl1
553	27	56.2	1079	1	US-08-485-588-8	Sequence 8, Appl1	626	26.5	55.2	14	2	US-09-662-091-83	Sequence 83, Appl1
554	27	56.2	1079	1	US-08-484-565-8	Sequence 8, Appl1	627	26.5	55.2	16	2	US-09-962-756-743	Sequence 743, App
555	27	56.2	1079	1	US-08-480-751-8	Sequence 8, Appl1	628	26.5	55.2	20	2	US-09-687-477-20	Sequence 20, Appl1
556	27	56.2	1079	1	US-08-943-986-8	Sequence 8, Appl1	629	26.5	55.2	22	2	US-09-687-476-20	Sequence 20, Appl1
557	27	56.2	1079	2	US-08-353-784-8	Sequence 8, Appl1	630	26.5	55.2	22	2	US-09-687-372-20	Sequence 20, Appl1
558	27	56.2	1079	2	US-08-484-159-8	Sequence 8, Appl1	631	26.5	55.2	22	2	US-09-975-553-20	Sequence 20, Appl1
559	27	56.2	1079	2	US-08-484-719B-8	Sequence 8, Appl1	632	26.5	55.2	22	2	US-10-270-795-20	Sequence 20, Appl1
560	27	56.2	1085	1	US-08-485-588-5	Sequence 5, Appl1	633	26.5	55.2	22	2	US-10-270-876-20	Sequence 20, Appl1
561	27	56.2	1085	1	US-08-484-565-5	Sequence 5, Appl1	634	26.5	55.2	22	2	US-10-268-051-10	Sequence 10, Appl1
562	27	56.2	1085	1	US-08-480-751-5	Sequence 5, Appl1	635	26.5	55.2	22	2	US-10-411-076-25	Sequence 25, Appl1
563	27	56.2	1085	1	US-08-943-986-5	Sequence 5, Appl1	636	26.5	55.2	22	2	US-10-125-772-25	Sequence 25, Appl1
564	27	56.2	1085	2	US-08-353-784-5	Sequence 5, Appl1	637	26.5	55.2	22	2	US-10-125-772-25	Sequence 25, Appl1
565	27	56.2	1085	2	US-08-484-719B-5	Sequence 5, Appl1	638	26.5	55.2	23	2	US-09-162-021B-13	Sequence 221, App
566	27	56.2	1085	2	US-08-484-159-5	Sequence 5, Appl1	639	26.5	55.2	23	2	US-09-177-249-221	Sequence 221, App
567	27	56.2	1088	1	US-08-485-588-6	Sequence 6, Appl1	640	26.5	55.2	25	2	US-09-812-283-221	Sequence 25, Appl1
568	27	56.2	1088	1	US-08-484-565-6	Sequence 6, Appl1	641	26.5	55.2	30	1	US-08-152-721B-25	Sequence 18, Appl1
569	27	56.2	1088	1	US-08-480-751-6	Sequence 6, Appl1	642	26.5	55.2	43	2	US-09-106-568E-18	Sequence 57, Appl1
570	27	56.2	1088	2	US-08-943-986-6	Sequence 6, Appl1	643	26.5	55.2	47	2	US-09-106-568E-18	Sequence 294, App
571	27	56.2	1088	2	US-08-353-784-6	Sequence 6, Appl1	644	26.5	55.2	47	2	US-10-178-213-294	Sequence 294, App
572	27	56.2	1088	2	US-08-484-719B-6	Sequence 6, Appl1	645	26.5	55.2	47	2	US-10-178-213-315	Sequence 315, App
573	27	56.2	1088	2	US-08-484-159-6	Sequence 6, Appl1	646	26.5	55.2	51	2	US-09-513-999C-4638	Sequence 4638, App
574	27	56.2	1098	2	US-10-104-047-2475	Sequence 2475, Ap	647	26.5	55.2	51	2	US-09-640-211A-691	Sequence 891, App
575	27	56.2	1101	1	US-08-916-917-14	Sequence 14, Appl1	648	26.5	55.2	53	2	US-10-178-213-357	Sequence 357, App
576	27	56.2	1101	2	US-09-225-170-14	Sequence 14, Appl1	649	26.5	55.2	53	2	US-09-621-976-6124	Sequence 6124, Ap
577	27	56.2	1161	2	US-09-252-991A-22872	Sequence 22872, A	650	26.5	55.2	53	2	US-09-513-999C-6864	Sequence 8664, Ap
578	27	56.2	1219	2	US-08-687-289A-6	Sequence 6, Appl1	651	26.5	55.2	53	2	US-09-540-236-3297	Sequence 3297, Ap
579	27	56.2	1219	2	US-09-435-897-6	Sequence 6, Appl1	652	26.5	55.2	53	2	US-09-902-546-9840	Sequence 9840, Ap
580	27	56.2	1243	2	US-09-198-452A-774	Sequence 704, App	653	26.5	55.2	53	2	US-09-248-796A-24950	Sequence 24950, A
581	27	56.2	1243	2	US-09-438-185A-668	Sequence 668, App	654	26.5	55.2	53	2	US-09-513-999C-6864	Sequence 8664, Ap
582	27	56.2	1271	1	US-08-095-734-2	Sequence 2, Appl1	655	26.5	55.2	61	2	US-09-540-236-3297	Sequence 3297, Ap
583	27	56.2	1271	1	US-08-444-623-2	Sequence 2, Appl1	656	26.5	55.2	67	2	US-09-902-546-9840	Sequence 9840, Ap
584	27	56.2	1271	2	US-08-471-869-2	Sequence 2, Appl1	657	26.5	55.2	68	2	US-09-248-796A-24950	Sequence 24950, A
585	27	56.2	1271	2	US-09-342-563-2	Sequence 2, Appl1	658	26.5	55.2	70	1	US-08-166-316-3	Sequence 3, Appl1
586	27	56.2	1271	4	PCT-US94-08267-2	Sequence 2, Appl1	659	26.5	55.2	73	2	US-09-097-094-3	Sequence 8, Appl1
587	27	56.2	1296	1	US-08-480-604A-28	Sequence 28, Appl1	660	26.5	55.2	73	2	US-09-509-902A-8	Sequence 8, Appl1
588	27	56.2	1296	1	US-08-405-496A-28	Sequence 28, Appl1	661	26.5	55.2	73	2	US-09-543-681A-7739	Sequence 7739, Ap
589	27	56.2	1296	2	US-08-915-136-28	Sequence 28, Appl1	662	26.5	55.2	73	2	US-09-248-796A-26442	Sequence 26442, A
590	27	56.2	1296	2	US-09-084-517-28	Sequence 28, Appl1	663	26.5	55.2	74	1	US-08-463-324-3	Sequence 3, Appl1
591	27	56.2	1411	2	US-09-252-991A-28408	Sequence 28408, A	664	26.5	55.2	74	1	US-08-463-324-3	Sequence 3, Appl1
592	27	56.2	1528	1	US-08-463-092B-6	Sequence 6, Appl1	665	26.5	55.2	74	2	US-09-246-500B-11	Sequence 11, Appl1
593	27	56.2	1528	1	US-08-462-109A-6	Sequence 6, Appl1	666	26.5	55.2	74	2	US-09-387-671-3	Sequence 3, Appl1
594	27	56.2	1528	2	US-08-460-907B-6	Sequence 6, Appl1	667	26.5	55.2	74	2	US-09-651-685-3	Sequence 3, Appl1
595	27	56.2	1528	2	US-08-463-179A-6	Sequence 6, Appl1	668	26.5	55.2	74	2	US-10-178-213-356	Sequence 356, App
596	27	56.2	1528	2	US-08-461-384B-6	Sequence 6, Appl1	669	26.5	55.2	76	2	US-09-107-532A-5295	Sequence 5295, Ap
597	27	56.2	1754	1	US-07-745-206A-13	Sequence 13, Appl1	670	26.5	55.2	78	2	US-09-370-767-59937	Sequence 59937, A
598	27	56.2	1754	1	US-08-311-363-13	Sequence 13, Appl1	671	26.5	55.2	78	2	US-09-513-999C-4543	Sequence 4543, Ap
599	27	56.2	1861	1	US-08-790-912-4	Sequence 4, Appl1	672	26.5	55.2	78	2	US-10-178-213-314	Sequence 314, App
600	27	56.2	2210	2	US-09-309-572-7	Sequence 7, Appl1	673	26.5	55.2	78	2	US-09-471-276-829	Sequence 829, App
601	27	56.2	2210	2	US-08-455-543A-48	Sequence 48, Appl1	674	26.5	55.2	79	2	US-10-178-213-293	Sequence 293, Appl1
602	27	56.2	2237	1	US-08-223-305C-48	Sequence 48, Appl1	675	26.5	55.2	80	1	US-07-971-160-14	Sequence 14, Appl1
603	27	56.2	2237	1	US-08-268-163-8	Sequence 8, Appl1	676	26.5	55.2	80	1	US-08-336-241-14	Sequence 14, Appl1
604	27	56.2	2237	2	US-08-713-118-2	Sequence 2, Appl1	677	26.5	55.2	80	1	US-09-119-024-14	Sequence 14, Appl1
605	27	56.2	2237	2	US-09-452-007-2	Sequence 2, Appl1	678	26.5	55.2	80	1	US-08-417-226-14	Sequence 14, Appl1
606	27	56.2	2339	1	US-08-455-543A-47	Sequence 47, Appl1	679	26.5	55.2	80	1	US-09-196-131-14	Sequence 14, Appl1
607	27	56.2	2339	1	US-08-223-305C-47	Sequence 47, Appl1	680	26.5	55.2	80	2	US-08-643-732-14	Sequence 14, Appl1
608	27	56.2	2339	2	US-09-268-163-6	Sequence 6, Appl1	681	26.5	55.2	80	2	US-09-836-169-14	Sequence 14, Appl1
609	27	56.2	2343	2	US-08-568-459A-12	Sequence 12, Appl1	682	26.5	55.2	80	2		
610	27	56.2	2710	1			683	26.5	55.2	80	2		
611	27	56.2	2710	1			684	26.5	55.2	80	2		

685	26	54.2	80	2	US-09-244-130-14	Sequence 14, Appl	758	26	54.2	212	2	US-09-270-767-32266	Sequence 32266, A
686	26	54.2	80	2	US-09-492-697-14	Sequence 14, Appl	759	26	54.2	212	2	US-09-270-767-47483	Sequence 47483, A
687	26	54.2	89	2	US-09-513-999C-7333	Sequence 7333, Ap	760	26	54.2	216	2	US-09-443-184-457	Sequence 57, Appl
688	26	54.2	97	2	US-09-248-796A-16604	Sequence 16604, A	761	26	54.2	218	2	US-09-386-493-7	Sequence 7, Appl
689	26	54.2	100	2	US-09-270-767-32986	Sequence 32986, A	762	26	54.2	219	1	US-08-925-408A-892	Sequence 2, Appl
690	26	54.2	100	2	US-09-270-767-48203	Sequence 48203, A	763	26	54.2	224	2	US-09-198-452A-892	Sequence 892, App
691	26	54.2	103	2	US-09-543-681A-7939	Sequence 7939, Ap	764	26	54.2	224	2	US-10-012-819-774	Sequence 274, App
692	26	54.2	104	2	US-09-134-001C-4716	Sequence 4716, Ap	765	26	54.2	228	2	US-08-911-423-6	Sequence 6, Appl
693	26	54.2	109	2	US-09-248-796A-21989	Sequence 21989, A	766	26	54.2	228	2	US-09-866-319A-45	Sequence 45, Appl
694	26	54.2	111	2	US-10-104-047-3918	Sequence 3918, Ap	767	26	54.2	232	2	US-08-911-423-7	Sequence 7, Appl
695	26	54.2	114	2	US-09-270-767-36269	Sequence 36269, A	768	26	54.2	234	2	US-09-512-363-2	Sequence 2, Appl
696	26	54.2	114	2	US-09-270-767-42187	Sequence 42187, A	769	26	54.2	234	2	US-09-176-200-2	Sequence 2, Appl
697	26	54.2	114	2	US-09-270-767-51486	Sequence 51486, A	770	26	54.2	234	2	US-09-915-593-2	Sequence 2, Appl
698	26	54.2	114	2	US-09-270-767-61542	Sequence 61542, A	771	26	54.2	237	2	US-09-655-270A-19	Sequence 19, Appl
699	26	54.2	115	2	US-09-640-211A-757	Sequence 757, App	772	26	54.2	237	2	US-09-651-941-23	Sequence 23, Appl
700	26	54.2	116	2	US-09-621-976-7212	Sequence 7212, Ap	773	26	54.2	237	2	US-09-955-597-23	Sequence 23, Appl
701	26	54.2	118	2	US-09-245-041-127	Sequence 127, App	774	26	54.2	238	2	US-08-634-475-6	Sequence 6, Appl
702	26	54.2	118	2	US-09-358-055B-128	Sequence 128, App	775	26	54.2	238	2	US-09-709-791-6	Sequence 6, Appl
703	26	54.2	118	2	US-09-893-238-127	Sequence 127, App	776	26	54.2	239	2	US-09-270-767-41169	Sequence 41169, A
704	26	54.2	120	2	US-09-270-767-31866	Sequence 31866, A	777	26	54.2	239	2	US-09-270-767-56385	Sequence 56385, A
705	26	54.2	120	2	US-09-270-767-47083	Sequence 47083, A	778	26	54.2	240	2	US-09-512-363-6	Sequence 6, Appl
706	26	54.2	120	2	US-09-248-796A-24260	Sequence 24260, A	779	26	54.2	240	2	US-09-176-200-6	Sequence 6, Appl
707	26	54.2	123	2	US-09-248-796A-16926	Sequence 16926, A	780	26	54.2	240	2	US-09-915-593-6	Sequence 6, Appl
708	26	54.2	124	2	US-09-513-999C-6026	Sequence 6026, Ap	781	26	54.2	241	2	US-08-911-423-4	Sequence 4, Appl
709	26	54.2	125	2	US-09-270-767-35295	Sequence 35295, A	782	26	54.2	241	2	US-09-512-363-28	Sequence 28, Appl
710	26	54.2	125	2	US-09-270-767-50512	Sequence 50512, A	783	26	54.2	241	2	US-09-134-000C-6347	Sequence 6347, Ap
711	26	54.2	128	2	US-09-270-767-42692	Sequence 42692, A	784	26	54.2	241	2	US-09-915-593-28	Sequence 28, Appl
712	26	54.2	130	2	US-09-270-767-58101	Sequence 58101, A	785	26	54.2	241	2	US-09-949-016-7232	Sequence 7232, Ap
713	26	54.2	131	2	US-09-270-767-62248	Sequence 62248, A	786	26	54.2	251	2	US-09-902-540-10049	Sequence 10049, Ap
714	26	54.2	134	2	US-09-270-767-62416	Sequence 62416, A	787	26	54.2	252	2	US-09-252-991A-27663	Sequence 27663, A
715	26	54.2	134	2	US-09-270-767-56532	Sequence 56532, A	788	26	54.2	252	2	US-09-270-767-41080	Sequence 41080, A
716	26	54.2	136	2	US-09-583-110-3645	Sequence 3645, Ap	789	26	54.2	252	2	US-09-270-767-56296	Sequence 56296, A
717	26	54.2	136	2	US-09-270-767-36154	Sequence 36154, A	790	26	54.2	254	2	US-09-270-767-57385	Sequence 57385, A
718	26	54.2	136	2	US-09-270-767-40567	Sequence 40567, A	791	26	54.2	256	2	US-09-215-694-4	Sequence 4, Appl
719	26	54.2	136	2	US-09-270-767-51371	Sequence 51371, A	792	26	54.2	256	2	US-09-252-991A-17168	Sequence 17168, Ap
720	26	54.2	136	2	US-09-270-767-55783	Sequence 55783, A	793	26	54.2	256	2	US-09-328-352-7827	Sequence 7827, Ap
721	26	54.2	144	2	US-09-931-381A-14	Sequence 14, Appl	794	26	54.2	256	2	US-10-109-310-4	Sequence 4, Appl
722	26	54.2	144	2	US-10-039-659A-2	Sequence 2, Appl	795	26	54.2	260	2	US-09-162-021B-4	Sequence 7, Appl
723	26	54.2	146	2	US-09-530-880-6	Sequence 6, Appl	796	26	54.2	265	1	US-08-211-312-7	Sequence 4, Appl
724	26	54.2	155	2	US-09-107-433-3117	Sequence 3117, Ap	797	26	54.2	265	2	US-08-472-285-7	Sequence 7, Appl
725	26	54.2	157	2	US-09-492-709A-374	Sequence 374, App	798	26	54.2	265	2	US-08-472-285-7	Sequence 7, Appl
726	26	54.2	159	2	US-09-248-796A-23065	Sequence 23065, A	799	26	54.2	269	2	US-09-270-767-61461	Sequence 61461, A
727	26	54.2	166	2	US-09-213-293D-18	Sequence 18, Appl	800	26	54.2	273	2	US-08-482-918-53	Sequence 53, Appl
728	26	54.2	167	2	US-09-270-767-35863	Sequence 35863, A	801	26	54.2	273	2	US-09-224-661-53	Sequence 53, Appl
729	26	54.2	167	2	US-09-270-767-51080	Sequence 51080, A	802	26	54.2	273	2	US-09-635-251-53	Sequence 53, Appl
730	26	54.2	168	1	US-08-193-977-9	Sequence 9, Appl	803	26	54.2	273	2	US-09-813-453B-10	Sequence 10, Appl
731	26	54.2	168	1	US-09-270-767-45066	Sequence 45066, A	804	26	54.2	273	2	US-09-224-663-55	Sequence 55, Appl
732	26	54.2	168	2	US-09-248-796A-20919	Sequence 20919, A	805	26	54.2	273	2	US-09-604-355A-53	Sequence 53, Appl
733	26	54.2	173	2	US-09-328-352-6091	Sequence 6091, Ap	806	26	54.2	275	2	US-08-336-728A-53	Sequence 53, Appl
734	26	54.2	177	2	US-09-149-476-565	Sequence 565, App	807	26	54.2	275	2	US-09-489-039A-8831	Sequence 8831, Ap
735	26	54.2	179	2	US-09-328-352-4542	Sequence 4542, Ap	808	26	54.2	275	2	US-09-270-767-57659	Sequence 57659, A
736	26	54.2	180	2	US-10-104-047-3076	Sequence 3076, Ap	809	26	54.2	275	2	US-09-902-540-14571	Sequence 14571, A
737	26	54.2	186	2	US-09-270-767-42788	Sequence 42788, A	810	26	54.2	278	2	US-09-858-207A-324	Sequence 324, App
738	26	54.2	189	2	US-10-012-231A-8	Sequence 8, Appl	811	26	54.2	288	2	US-09-583-110-2922	Sequence 2922, App
739	26	54.2	189	2	US-10-015-389A-8	Sequence 8, Appl	812	26	54.2	292	2	US-09-270-767-58714	Sequence 58714, A
740	26	54.2	189	2	US-10-006-768A-8	Sequence 8, Appl	813	26	54.2	292	2	US-09-270-767-53931	Sequence 53931, A
741	26	54.2	189	2	US-10-015-677A-8	Sequence 8, Appl	814	26	54.2	293	2	US-09-107-443-5103	Sequence 5103, Ap
742	26	54.2	189	2	US-10-015-933A-8	Sequence 8, Appl	815	26	54.2	293	2	US-08-147-592A-12	Sequence 12, Appl
743	26	54.2	189	2	US-10-011-833A-8	Sequence 8, Appl	816	26	54.2	295	2	US-08-292-694A-12	Sequence 12, Appl
744	26	54.2	189	2	US-10-006-041A-8	Sequence 8, Appl	817	26	54.2	296	2	US-09-252-991A-22449	Sequence 22449, A
745	26	54.2	189	2	US-10-012-064A-8	Sequence 8, Appl	818	26	54.2	296	2	US-09-543-661A-6091	Sequence 6091, Ap
746	26	54.2	197	2	US-09-866-319A-81	Sequence 81, Appl	819	26	54.2	296	2	US-09-270-767-59761	Sequence 59761, A
747	26	54.2	204	1	US-08-652-859-2	Sequence 2, Appl	820	26	54.2	299	2	US-09-107-532A-5499	Sequence 5499, Ap
748	26	54.2	204	1	US-08-919-706-2	Sequence 2, Appl	821	26	54.2	304	2	US-09-543-661A-5582	Sequence 5582, Ap
749	26	54.2	204	1	US-09-153-751-2	Sequence 2, Appl	822	26	54.2	304	2	US-09-248-796A-20845	Sequence 20845, A
750	26	54.2	204	1	US-09-886-319A-38	Sequence 38, Appl	823	26	54.2	305	2	US-09-270-767-59320	Sequence 59320, A
751	26	54.2	206	2	US-09-769-787-145	Sequence 145, App	824	26	54.2	308	2	US-09-489-039A-9072	Sequence 9072, Ap
752	26	54.2	207	2	US-09-438-185A-832	Sequence 832, App	825	26	54.2	310	2	US-09-270-767-42373	Sequence 42373, A
753	26	54.2	207	2	US-10-172-527A-33	Sequence 33, Appl	826	26	54.2	311	2	US-08-911-423-8	Sequence 8, Appl
754	26	54.2	207	2	US-10-172-527A-34	Sequence 34, Appl	827	26	54.2	321	1	US-08-592-126-143	Sequence 143, App
755	26	54.2	207	2	US-10-172-527A-35	Sequence 35, Appl	828	26	54.2	321	1	US-09-168-595-143	Sequence 143, App
756	26	54.2	207	2	US-10-172-527A-36	Sequence 36, Appl	829	26	54.2	322	2	US-09-328-352-5024	Sequence 5024, Ap
757	26	54.2	207	2	US-10-172-527A-37	Sequence 37, Appl	830	26	54.2	323	2	US-09-292-858B-22	Sequence 22, Appl

831	26	54.2	323	2	US-09-352-991A-19242	Sequence 19242, A	904	26	54.2	398	2	US-09-351-198-3	Sequence 3, Appl1
832	26	54.2	329	2	US-09-328-352-6272	Sequence 6272, Ap	905	26	54.2	398	2	US-09-113-428-3	Sequence 3, Appl1
833	26	54.2	330	1	US-08-454-549-5	Sequence 5, Appl1	906	26	54.2	398	2	US-08-405-271A-16	Sequence 16, Appl1
834	26	54.2	330	2	US-08-454-549-5	Sequence 5, Appl1	907	26	54.2	398	2	US-07-761-962A-39	Sequence 29, Appl1
835	26	54.2	333	2	US-09-653-702A-39	Sequence 39, Appl1	908	26	54.2	398	2	US-09-214-904-2	Sequence 2, Appl1
836	26	54.2	333	2	US-09-659-135-39	Sequence 39, Appl1	909	26	54.2	398	4	PCR-US94-10358-2	Sequence 2, Appl1
837	26	54.2	333	2	US-09-470-767-44340	Sequence 44340, A	910	26	54.2	399	2	US-09-761-962A-21	Sequence 21, Appl1
838	26	54.2	336	1	US-08-118-270-54	Sequence 54, Appl1	911	26	54.2	400	1	US-08-351-149-6	Sequence 6, Appl1
839	26	54.2	336	2	US-09-248-796A-15889	Sequence 15889, A	912	26	54.2	400	1	US-08-384-828-6	Sequence 6, Appl1
840	26	54.2	336	2	US-10-152-886-81	Sequence 81, Appl1	913	26	54.2	400	2	US-08-889-108-8	Sequence 6, Appl1
841	26	54.2	336	4	PCR-US93-08528-54	Sequence 54, Appl1	914	26	54.2	400	2	US-08-895-474-6	Sequence 6, Appl1
842	26	54.2	339	4	US-09-692-570-6	Sequence 5375, Ap	915	26	54.2	400	2	US-08-188-275A-2	Sequence 2, Appl1
843	26	54.2	342	2	US-09-328-352-5375	Sequence 32874, A	916	26	54.2	400	2	US-09-351-198-2	Sequence 2, Appl1
844	26	54.2	342	2	US-09-270-767-32874	Sequence 46644, A	917	26	54.2	400	2	US-09-113-428-2	Sequence 2, Appl1
845	26	54.2	354	2	US-09-270-767-46644	Sequence 1227, Ap	918	26	54.2	400	2	US-09-252-991A-19992	Sequence 19992, A
846	26	54.2	354	2	US-09-538-092-1237	Sequence 2, Appl1	919	26	54.2	400	4	PCR-US94-10358-8	Sequence 8, Appl1
847	26	54.2	356	2	US-08-430-286A-2	Sequence 2, Appl1	920	26	54.2	401	2	US-09-761-962A-20	Sequence 20, Appl1
848	26	54.2	356	2	US-08-430-286A-5	Sequence 2, Appl1	921	26	54.2	406	2	US-09-491-577-38	Sequence 38, Appl1
849	26	54.2	358	1	US-08-700-186-2	Sequence 2, Appl1	922	26	54.2	409	2	US-09-761-962A-27	Sequence 27, Appl1
850	26	54.2	358	2	US-08-914-981-2	Sequence 2, Appl1	923	26	54.2	412	2	US-10-104-047-3475	Sequence 3475, Ap
851	26	54.2	358	2	US-09-116-115-2	Sequence 2, Appl1	924	26	54.2	420	1	US-08-405-271A-20	Sequence 20, Appl1
852	26	54.2	358	2	US-09-541-762-2	Sequence 2, Appl1	925	26	54.2	420	2	US-08-592-126-142	Sequence 142, App
853	26	54.2	358	2	US-09-370-767-46004	Sequence 46004, A	926	26	54.2	420	2	US-09-168-595-142	Sequence 142, App
854	26	54.2	359	2	US-09-761-962A-18	Sequence 18, Appl1	927	26	54.2	420	2	US-09-198-457A-515	Sequence 479, App
855	26	54.2	359	2	US-09-949-016-7301	Sequence 7301, Ap	928	26	54.2	423	2	US-09-438-188A-479	Sequence 6, Appl1
856	26	54.2	364	2	US-09-770-676-46731	Sequence 46731, A	929	26	54.2	423	2	US-09-341-446B-6	Sequence 8, Appl1
857	26	54.2	368	2	US-09-328-352-7910	Sequence 7910, Ap	930	26	54.2	424	2	US-09-341-446B-8	Sequence 8, Appl1
858	26	54.2	370	2	US-09-328-352-21152	Sequence 21152, A	931	26	54.2	427	2	US-07-679-052A-15	Sequence 15, Appl1
859	26	54.2	370	2	US-09-328-352-7915	Sequence 7915, Ap	932	26	54.2	434	1	US-07-679-052A-15	Sequence 12898, A
860	26	54.2	375	2	US-09-583-110-3837	Sequence 3837, Ap	933	26	54.2	434	2	US-09-489-039A-12898	Sequence 12, Appl1
861	26	54.2	376	2	US-08-387-707-17	Sequence 17, Appl1	934	26	54.2	434	2	US-09-162-021B-12	Sequence 45974, A
862	26	54.2	376	2	US-08-405-271A-17	Sequence 17, Appl1	935	26	54.2	435	2	US-09-770-767-45974	Sequence 17, Appl1
863	26	54.2	377	2	US-09-107-433-3088	Sequence 3088, Ap	936	26	54.2	437	2	US-09-761-962A-17	Sequence 17, Appl1
864	26	54.2	380	1	US-08-149-093A-7	Sequence 7, Appl1	937	26	54.2	438	2	US-09-134-000C-5410	Sequence 28, Appl1
865	26	54.2	380	1	US-08-911-245-7	Sequence 7, Appl1	938	26	54.2	442	2	US-09-761-962A-28	Sequence 10764, A
866	26	54.2	380	2	US-09-170-331-7	Sequence 7, Appl1	939	26	54.2	444	2	US-09-320-377A-28	Sequence 28, Appl1
867	26	54.2	380	2	US-08-676-351-5	Sequence 5, Appl1	940	26	54.2	448	2	US-09-438-188A-479	Sequence 6, Appl1
868	26	54.2	380	2	US-08-147-592A-2	Sequence 2, Appl1	941	26	54.2	448	2	US-09-341-446B-6	Sequence 8, Appl1
869	26	54.2	380	2	US-08-765-743-2	Sequence 2, Appl1	942	26	54.2	452	2	US-09-341-446B-8	Sequence 8, Appl1
870	26	54.2	380	2	US-08-188-775A-5	Sequence 5, Appl1	943	26	54.2	454	1	US-09-168-595-142	Sequence 15, Appl1
871	26	54.2	380	2	US-09-473-73	Sequence 7, Appl1	944	26	54.2	454	2	US-09-198-457A-515	Sequence 479, App
872	26	54.2	380	2	US-08-252-694A-2	Sequence 2, Appl1	945	26	54.2	457	2	US-09-438-188A-479	Sequence 6, Appl1
873	26	54.2	380	2	US-09-351-198-5	Sequence 5, Appl1	946	26	54.2	457	2	US-09-721-975-10	Sequence 10, Appl1
874	26	54.2	380	2	US-09-341-446B-2	Sequence 2, Appl1	947	26	54.2	457	2	US-09-826-621-1	Sequence 1, Appl1
875	26	54.2	380	2	US-09-113-426-5	Sequence 5, Appl1	948	26	54.2	457	2	US-09-986-625-10	Sequence 10, Appl1
876	26	54.2	380	2	US-09-328-352-4497	Sequence 4497, Ap	949	26	54.2	457	2	US-09-986-625-10	Sequence 10, Appl1
877	26	54.2	380	2	US-09-214-904-6	Sequence 543, App	950	26	54.2	457	2	US-08-351-981-4	Sequence 42118, A
878	26	54.2	380	2	US-08-826-509-543	Sequence 42808, A	951	26	54.2	460	1	US-09-270-767-42118	Sequence 9259, Ap
879	26	54.2	383	2	US-09-270-767-42808	Sequence 25, Appl1	952	26	54.2	460	2	US-09-949-016-9259	Sequence 14567, A
880	26	54.2	390	2	US-09-761-962A-25	Sequence 3, Appl1	953	26	54.2	465	2	US-09-902-540-14567	Sequence 43914, A
881	26	54.2	391	1	US-08-454-549-3	Sequence 3, Appl1	954	26	54.2	467	2	US-09-537-357-53	Sequence 9255, Ap
882	26	54.2	391	2	US-08-454-552-3	Sequence 4, Appl1	955	26	54.2	468	2	US-09-320-377A-28	Sequence 5597, Ap
883	26	54.2	391	2	US-08-676-351-4	Sequence 26, Appl1	956	26	54.2	468	2	US-09-134-000C-5597	Sequence 45923, A
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885	26	54.2	392	2	US-09-761-962A-19	Sequence 19, Appl1	958	26	54.2	468	2	US-09-949-016-8259	Sequence 224, App
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887	26	54.2	392	2	US-09-270-767-50378	Sequence 50378, A	960	26	54.2	468	2	US-09-949-016-8259	Sequence 3082, Ap
888	26	54.2	392	2	US-08-826-509-547	Sequence 547, App	961	26	54.2	468	2	US-09-949-016-8259	Sequence 15238, A
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890	26	54.2	393	2	US-09-115-828-76	Sequence 76, Appl1	963	26	54.2	468	2	US-09-949-016-8259	Sequence 18286, A
891	26	54.2	393	2	US-09-753-143-76	Sequence 76, Appl1	964	26	54.2	468	2	US-09-949-016-8259	Sequence 3342, Ap
892	26	54.2	394	2	US-08-405-271A-22	Sequence 22, Appl1	965	26	54.2	468	2	US-09-949-016-8259	Sequence 3359, Ap
893	26	54.2	397	1	US-07-956-697B-5	Sequence 5, Appl1	966	26	54.2	468	2	US-09-949-016-8259	Sequence 3359, Ap
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898	26	54.2	398	2	US-09-170-331-5	Sequence 5, Appl1	971	26	54.2	468	2	US-09-949-016-8259	Sequence 3359, Ap
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902	26	54.2	398	2	US-08-387-707-16	Sequence 16, Appl1	975	26	54.2	468	2	US-09-949-016-8259	Sequence 3359, Ap
903	26	54.2	398	2	US-09-510-473-5	Sequence 5, Appl1	976	26	54.2	468	2	US-09-949-016-8259	Sequence 3359, Ap

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978 26 54.2 557 2 US-09-949-016-8715 Sequence 8715, Ap
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980 26 54.2 563 2 US-09-252-991A-24084 Sequence 24084, A
981 26 54.2 567 2 US-10-172-527A-7 Sequence 7, Appl
982 26 54.2 568 2 US-09-469-200E-10 Sequence 10, Appl
983 26 54.2 575 2 US-09-252-991A-25723 Sequence 25723, A
984 26 54.2 578 2 US-09-248-796A-14784 Sequence 14784, A
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986 26 54.2 589 2 US-09-902-540-11834 Sequence 11834, A
987 26 54.2 590 1 US-08-448-196A-9 Sequence 9, Appl
988 26 54.2 604 2 US-09-949-016-11667 Sequence 11667, A
989 26 54.2 644 2 US-09-198-452A-822 Sequence 822, App
990 26 54.2 644 2 US-09-438-185A-774 Sequence 774, App
991 26 54.2 672 2 US-09-270-767-46165 Sequence 46165, A
992 26 54.2 691 2 US-09-605-703B-1624 Sequence 1624, Ap
993 26 54.2 694 2 US-09-270-767-36948 Sequence 36948, A
994 26 54.2 694 2 US-09-270-767-52165 Sequence 52165, A
995 26 54.2 700 2 US-09-248-796A-16968 Sequence 16968, A
996 26 54.2 710 2 US-09-079-812E-2 Sequence 2, Appl
997 26 54.2 726 2 US-09-489-039A-7465 Sequence 7465, Ap
998 26 54.2 739 2 US-09-949-016-9709 Sequence 9709, Ap
999 26 54.2 750 2 US-10-046-433-2 Sequence 2, Appl
1000 26 54.2 751 1 US-08-836-443-3 Sequence 3, Appl

ALIGNMENTS

RESULT 1
US-08-787-547-103
Sequence 103, Application US/08787547
Patent No. 5783567
GENERAL INFORMATION:
APPLICANT: Hedley, Mary Lynne
APPLICANT: Curley, Joanne M.
APPLICANT: Langer, Robert S.
TITLE OF INVENTION: MICROPARTICLES FOR DELIVERY
TITLE OF INVENTION: OF NUCLEIC ACID
NUMBER OF SEQUENCES: 107
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/787,547
FILING DATE: 22-JAN-1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/003001
TELEPHONE: 617-542-5070
TELEFAX: 617-542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 103:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide

US-08-787-547-103
Query Match 100.0%; Score 48; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFRDLCTV 9
1 FAFRDLCTV 9

RESULT 2
US-08-197-484-67
Sequence 67, Application US/08197484
Patent No. 641931
GENERAL INFORMATION:
APPLICANT: VITIELLO, Maria A.
APPLICANT: CHESTNUT, Robert W.
APPLICANT: SETTE, Alessandro D.
APPLICANT: CELIS, Esteban
APPLICANT: GRAY, Howard
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ELICITING
TITLE OF INVENTION: CTL IMMUNITY
NUMBER OF SEQUENCES: 153
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend Kourie and Crew
STREET: Stewart Street Tower, One Market Plaza
CITY: San Francisco
STATE: California
COUNTRY: US
ZIP: 94105-1493
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/197,484
FILING DATE: 16-FEB-1994
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/935,811
FILING DATE: 26-AUG-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/874,491
FILING DATE: 27-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/827,682
FILING DATE: 29-JAN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/749,568
FILING DATE: 26-AUG-1991
ATTORNEY/AGENT INFORMATION:
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REGISTRATION NUMBER: 31,990
REFERENCE/DOCKET NUMBER: 14137-26-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 467-9600
TELEFAX: (206) 467-9600
INFORMATION FOR SEQ ID NO: 67:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: peptide
US-08-197-484-67
Query Match 100.0%; Score 48; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFRDLCTV 9

Db 1 FAFRDLCTIV 9

RESULT 3
PCT-US95-02121-67
Sequence 67, Application PC/TUS9502121

GENERAL INFORMATION:

APPLICANT:

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ELICITING

TITLE OF INVENTION: CTL IMMUNITY

NUMBER OF SEQUENCES: 153

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT/US95/02121

FILING DATE: 16-FEB-1995

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/197,484

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PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/935,811

FILING DATE: 26-AUG-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/874,491

FILING DATE: 27-APR-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/827,682

FILING DATE: 29-JAN-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/749,568

FILING DATE: 26-AUG-1991

ATTORNEY/AGENT INFORMATION:

NAME: Parmelee, Steven W.

REGISTRATION NUMBER: 31,980

REFERENCE/DOCKET NUMBER: 14137-26-4PC

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 467-9600

TELEFAX: (415) 543-5043

INFORMATION FOR SEQ ID NO: 67:

SEQUENCE CHARACTERISTICS:

LENGTH: 9 amino acids

TYPE: amino acid

STRANDEDNESS: unknown

TOPOLOGY: unknown

MOLECULE TYPE: peptide

PCT-US95-02121-67

Query Match 100.0%; Score 48; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFRDLCTIV 9
Db 1 FAFRDLCTIV 9

RESULT 4
US-09-980-523A-6
Sequence 6, Application US/09980523A

Patent No. 6783763

GENERAL INFORMATION:

APPLICANT: CHOPPIN, JEANNINE

APPLICANT: BOURGAULT VILLADA, ISABELLE

APPLICANT: GUILLET, JEAN-GERARD

APPLICANT: CONNAN, FRANCES

APPLICANT: FERRIES, ESTELLE

TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 AND E7

TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE

TITLE OF INVENTION: PARTICULARLY IN VACCINATION
FILE REFERENCE: WO81 AO INS

CURRENT APPLICATION NUMBER: US/09/980,523A

CURRENT FILING DATE: 2002-04-29

PRIOR APPLICATION NUMBER: PCT/FR00/01513

PRIOR FILING DATE: 2000-05-31

PRIOR APPLICATION NUMBER: FR 99/07012

PRIOR FILING DATE: 1999-06-03

NUMBER OF SEQ ID NOS: 24

SOFTWARE: Patentin Ver. 2.1

SEQ ID NO 6

LENGTH: 22

TYPE: PRT

ORGANISM: Human Papillomavirus

US-09-980-523A-6

Query Match 100.0%; Score 48; DB 2; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.026;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFRDLCTIV 9
Db 7 FAFRDLCTIV 15

RESULT 5
US-09-601-729-276
Sequence 276, Application US/09601729

Patent No. 6683052

GENERAL INFORMATION:

APPLICANT: THIAM, KADER

APPLICANT: AURIAULT, CLAUDE

APPLICANT: GRAS-MASSÉ, HELENE

APPLICANT: LOING, ESTELLE

APPLICANT: VERWAERDE, CLAUDE

APPLICANT: GUILLET, JEAN GERARD

TITLE OF INVENTION: LIPOPEPTIDES CONTAINING AN INTERFERON FRAGMENT AND USES

TITLE OF INVENTION: THEREOF IN PHARMACEUTICAL COMPOSITIONS

FILE REFERENCE: USB-97-AU-IN

CURRENT APPLICATION NUMBER: US/09/601,729

CURRENT FILING DATE: 2000-11-20

PRIOR APPLICATION NUMBER: PCT/FR99/00259

PRIOR FILING DATE: 1999-02-05

PRIOR APPLICATION NUMBER: 98 01439

PRIOR FILING DATE: 1998-02-06

NUMBER OF SEQ ID NOS: 281

SOFTWARE: Patentin Ver. 2.1

SEQ ID NO 276

LENGTH: 23

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURES:

OTHER INFORMATION: Description of Artificial Sequence: Synthetic

US-09-601-729-276
Query Match 100.0%; Score 48; DB 2; Length 23;
Best Local Similarity 100.0%; Pred. No. 0.028;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFRDLCTIV 9
Db 8 FAFRDLCTIV 16

RESULT 6
US-09-701-080C-18
Sequence 18, Application US/09701080C

Patent No. 6864054

GENERAL INFORMATION:

APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY

TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300

TITLE OF INVENTION: TRANSCRIPTIONAL REGULATION

FILE REFERENCE: N73477C GCM
CURRENT APPLICATION NUMBER: US/09/701,080C
CURRENT FILING DATE: 2001-02-27
PRIOR APPLICATION NUMBER: GB 9811303.8
PRIOR FILING DATE: 1998-05-26
PRIOR APPLICATION NUMBER: GB 9900157.0
PRIOR FILING DATE: 1999-01-05
NUMBER OF SEQ ID NOS: 36
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 18
LENGTH: 151
TYPE: PRT
ORGANISM: Human papillomavirus
US-09-701-080C-18

Query Match 100.0%; Score 48; DB 2; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.18;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFRDLCTV 9
Db 45 FAFRDLCTV 53

RESULT 7
US-09-980-523A-2
Sequence 2, Application US/09980523A
Patent No. 6783763
GENERAL INFORMATION:
APPLICANT: CHOPPIN, JEANNINE
APPLICANT: BOURGAUT VILLADA, ISABELLE
APPLICANT: GUILLET, JEAN-GERARD
APPLICANT: CONNAN, FRANCINE
APPLICANT: FERRIES, ESTELLE
TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 AND E7
TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
TITLE OF INVENTION: PARTICULARLY IN VACCINATION
FILE REFERENCE: MOBI AO INS
CURRENT APPLICATION NUMBER: US/09/980,523A
CURRENT FILING DATE: 2002-04-29
PRIOR APPLICATION NUMBER: PCT/FR00/01513
PRIOR FILING DATE: 2000-05-31
PRIOR APPLICATION NUMBER: PR 99/07012
PRIOR FILING DATE: 1999-06-03
NUMBER OF SEQ ID NOS: 24
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 2
LENGTH: 158
TYPE: PRT
ORGANISM: Human Papillomavirus
US-09-980-523A-2

Query Match 100.0%; Score 48; DB 2; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.18;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFRDLCTV 9
Db 52 FAFRDLCTV 60

RESULT 8
US-08-316-239B-3
Sequence 3, Application US/08316239B
Patent No. 5679509
GENERAL INFORMATION:
APPLICANT: Wheeler, Cosette M.
APPLICANT: Parmenter, Cheryl A.
TITLE OF INVENTION: Methods and a Diagnostic Aid for
TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
TITLE OF INVENTION: Cervical Cancer
NUMBER OF SEQUENCES: 4

CORRESPONDENCE ADDRESS:
ADDRESSEE: Jagtiani & Associates
STREET: 6126 Rocky Way Court
CITY: Centreville
STATE: VA
COUNTRY: USA
ZIP: 20120-3400
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/316,239B
FILING DATE: 30-SEP-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Jagtiani, Ajay A.
REGISTRATION NUMBER: 35,205
REFERENCE/DOCKET NUMBER: UNME-0001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 817-9453
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 162 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULE TYPE: Protein
HYPOTHETICAL: NO
US-08-316-239B-3

Query Match 100.0%; Score 48; DB 1; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.19;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFRDLCTV 9
Db 52 FAFRDLCTV 60

RESULT 9
US-08-316-239B-4
Sequence 4, Application US/08316239B
Patent No. 5679509
GENERAL INFORMATION:
APPLICANT: Wheeler, Cosette M.
APPLICANT: Parmenter, Cheryl A.
TITLE OF INVENTION: Methods and a Diagnostic Aid for
TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Jagtiani & Associates
STREET: 6126 Rocky Way Court
CITY: Centreville
STATE: VA
COUNTRY: USA
ZIP: 20120-3400
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/316,239B
FILING DATE: 30-SEP-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Jagtiani, Ajay A.
REGISTRATION NUMBER: 35,205

REFERENCE/DOCKET NUMBER: UNME-0001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 817-9453
TELEFAX: (703) 803-9387
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 162 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULE TYPE: protein
HYPOTHETICAL: NO
US-08-316-239B-4

Query Match 100.0%; Score 48; DB 1; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.19;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFRDLCTIV 9
Db 52 FAFRDLCTIV 60

RESULT 10
US-08-860-165-14
Sequence 14, Application US/08860165A
Patent No. 6004557
GENERAL INFORMATION:
APPLICANT: EDWARDS, Stirling John
APPLICANT: COX, John Cooper
APPLICANT: WEBB, Elizabeth Ann
APPLICANT: FRAZER, Ian
TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
FILE REFERENCE: 17227/130
CURRENT APPLICATION NUMBER: US/08/860,165A
CURRENT FILING DATE: 1997-09-22
EARLIER APPLICATION NUMBER: PCT/AU95/00868
EARLIER FILING DATE: 1995-12-20
EARLIER APPLICATION NUMBER: AU PN0157
EARLIER FILING DATE: 1994-12-20
NUMBER OF SEQ ID NOS: 15
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 14
LENGTH: 172
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-14

Query Match 100.0%; Score 48; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFRDLCTIV 9
Db 121 FAFRDLCTIV 129

RESULT 11
US-09-359-382-14
Sequence 14, Application US/09359382
Patent No. 6306397
GENERAL INFORMATION:
APPLICANT: EDWARDS, Stirling John
APPLICANT: COX, John Cooper
APPLICANT: WEBB, Elizabeth Ann
APPLICANT: FRAZER, Ian
TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
FILE REFERENCE: 017227/0148
CURRENT APPLICATION NUMBER: US/09/359,382
CURRENT FILING DATE: 1999-07-23
EARLIER APPLICATION NUMBER: US 08/860,165

EARLIER FILING DATE: 1997-09-22
EARLIER APPLICATION NUMBER: PCT/AU95/00868
EARLIER FILING DATE: 1995-12-20
EARLIER APPLICATION NUMBER: AU PN0157/94
EARLIER FILING DATE: 1994-12-20
NUMBER OF SEQ ID NOS: 27
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 14
LENGTH: 172
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-09-359-382-14

Query Match 100.0%; Score 48; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFRDLCTIV 9
Db 121 FAFRDLCTIV 129

RESULT 12
US-09-462-993-1
Sequence 1, Application US/09462293
Patent No. 6884786
GENERAL INFORMATION:
APPLICANT: KIENY, Marie-Paule
APPLICANT: BALLOU, Jean-Marc
APPLICANT: BIZOUARRE, Nadine
TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
FILE REFERENCE: 017753-122
CURRENT APPLICATION NUMBER: US/09/462,993
CURRENT FILING DATE: 2000-04-17
PRIOR APPLICATION NUMBER: PCT/FR98/01576
PRIOR FILING DATE: 1998-07-17
PRIOR APPLICATION NUMBER: FR 97/09152
PRIOR FILING DATE: 1997-07-18
NUMBER OF SEQ ID NOS: 23
SOFTWARE: PatentIn Ver. 2.2
SEQ ID NO 1
LENGTH: 243
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Derived from
human papillomavirus, strain HPV-16, E6 protein
OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-09-462-993-1

Query Match 100.0%; Score 48; DB 2; Length 243;
Best Local Similarity 100.0%; Pred. No. 0.28;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFRDLCTIV 9
Db 80 FAFRDLCTIV 88

RESULT 13
US-08-860-165-10
Sequence 10, Application US/08860165A
Patent No. 6004557
GENERAL INFORMATION:
APPLICANT: EDWARDS, Stirling John
APPLICANT: COX, John Cooper
APPLICANT: WEBB, Elizabeth Ann
APPLICANT: FRAZER, Ian
TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
FILE REFERENCE: 17227/130
CURRENT APPLICATION NUMBER: US/08/860,165A
CURRENT FILING DATE: 1997-09-22

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; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

Query Match          100.0%; Score 48; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.31;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFRDLCIV 9
Db 52 FAFRDLCIV 60

RESULT 14
US-09-359-382-10
; Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; PRIOR FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-10

Query Match          100.0%; Score 48; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.31;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFRDLCIV 9
Db 52 FAFRDLCIV 60

RESULT 15
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428807
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; APPLICANT: MALLIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A
; PRIOR FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
```

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; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match          100.0%; Score 48; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.31;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFRDLCIV 9
Db 52 FAFRDLCIV 60

RESULT 16
US-09-485-885-4
; Sequence 4, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabazon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-4

Query Match          100.0%; Score 48; DB 2; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.32;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFRDLCIV 9
Db 158 FAFRDLCIV 166

RESULT 17
US-09-485-885-10
; Sequence 10, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabazon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
```

SEQ ID NO 10
LENGTH: 292
TYPE: PRT
ORGANISM: Homo sapien
US-09-485-885-10

Query Match 100.0%; Score 48; DB 2; Length 292;
Best Local Similarity 100.0%; Pred. No. 0.34;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFRDLCIV 9
Db 177 FAFRDLCIV 185

RESULT 18
US-09-485-885-6
Sequence 6, Application US/09485885
Patent No. 6342224
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabazon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Bernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/09/485,885
CURRENT FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 6
LENGTH: 371
TYPE: PRT
ORGANISM: Homo sapien
US-09-485-885-6

Query Match 100.0%; Score 48; DB 2; Length 371;
Best Local Similarity 100.0%; Pred. No. 0.43;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFRDLCIV 9
Db 158 FAFRDLCIV 166

RESULT 19
US-09-485-885-14
Sequence 14, Application US/09485885
Patent No. 6342224
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabazon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Bernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/09/485,885
CURRENT FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 14
LENGTH: 390
TYPE: PRT

ORGANISM: Homo sapien
US-09-485-885-14

Query Match 100.0%; Score 48; DB 2; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.45;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFRDLCIV 9
Db 177 FAFRDLCIV 185

RESULT 20
US-08-117-083-10
Sequence 10, Application US/08117083
Patent No. 5719054
GENERAL INFORMATION:
APPLICANT: Bourneil, Michael E.
APPLICANT: Inglis, Stephen C.
APPLICANT: Munro, Alan J.
TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human
NUMBER OF SEQUENCES: 70
CORRESPONDENCE ADDRESS:
ADDRESSER: Walter H. Dregger
STREET: 4 Embarcadero Center, Suite 3400
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/117,083
FILING DATE: 10-SEP-1993
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Dregger, Walter H.
REGISTRATION NUMBER: 24,190
REFERENCE/DOCKET NUMBER: A-58763
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-781-1989
TELEFAX: 415-398-3249
TELEX: 910 277299
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 182 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
NAME/KEY: Protein
LOCATION: 1..182
OTHER INFORMATION:
OTHER INFORMATION: the open reading frame."

Query Match 97.9%; Score 47; DB 1; Length 182;
Best Local Similarity 88.9%; Pred. No. 0.32;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFRDLCIV 9
Db 53 FAFRDLCIV 61

RESULT 21
US-08-934-915-161
Sequence 161, Application US/08934915

Patent No. 5932412
GENERAL INFORMATION:
APPLICANT: DILLNER, JOAKIM
APPLICANT: DILLNER, LENA
APPLICANT: CHENG, HWEI-MING
TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
TITLE OF INVENTION: USEFUL IN IMMUNOSSAY FOR
TITLE OF INVENTION: DIAGNOSTIC PURPOSES
NUMBER OF SEQUENCES: 193
CORRESPONDENCE ADDRESS:
ADDRESSEE: MASON & ASSOCIATES, P.A.
STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
CITY: CLEARWATER
STATE: FLORIDA
COUNTRY: U.S.A.
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 3.0
SOFTWARE: Microsoft Word 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/934,915
FILING DATE: 22-SEP-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/949,836
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: LOUISE A. FOUTCH
REGISTRATION NUMBER: 37,133
REFERENCE/DOCKET NUMBER: 1946.6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 813-538-3800
TELEFAX: 813-538-3820
TELEX:
INFORMATION FOR SEQ ID NO: 161:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-934-915-161
Query Match 89.6%; Score 43; DB 1; Length 20;
Best Local Similarity 88.9%; Pred. No. 0.2;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1 FAFRDLCIV 9
DB 6 FAFRNLICIV 14
RESULT 22
US-07-909-122-4
Sequence 4, Application US/07909122
Patent No. 5415995
GENERAL INFORMATION:
APPLICANT: SCHOOLNIK, GARY K.
APPLICANT: PALERSKY, JOEL M.
TITLE OF INVENTION: DIAGNOSTIC PEPTIDES OF HUMAN PAPILLOMA
TITLE OF INVENTION: VIRUS
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FORSTER
STREET: 755 Page Mill Road
CITY: Palo Alto
STATE: California
COUNTRY: USA
ZIP: 94304-1018
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/909,122
FILING DATE: 19920706
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: BENZ, WILLIAM H.
REGISTRATION NUMBER: 25,952
REFERENCE/DOCKET NUMBER: 28600-20105.01
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 813-5600
TELEFAX: (415) 494-0792
TELEX: 706141
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 14 amino acids
TYPE: AMINO ACID
STRANDEDNESS: single
TOPOLOGY: linear
US-07-909-122-4
Query Match 83.3%; Score 40; DB 1; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.48;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 FAFRDLC 7
DB 8 FAFRDLC 14

RESULT 23
US-09-489-847-160
Sequence 160, Application US/09489847
Patent No. 6476195
GENERAL INFORMATION:
APPLICANT: Rosen et al
TITLE OF INVENTION: 98 Human Secreted Proteins
FILE REFERENCE: P2031P
CURRENT APPLICATION NUMBER: US/09/489,847
CURRENT FILING DATE: 2000-01-24
EARLIER APPLICATION NUMBER: PCT/US99/17130
EARLIER FILING DATE: 1999-07-29
EARLIER APPLICATION NUMBER: 60/094,657
EARLIER FILING DATE: 1998-07-30
EARLIER APPLICATION NUMBER: 60/095,486
EARLIER FILING DATE: 1998-08-05
EARLIER APPLICATION NUMBER: 60/096,319
EARLIER FILING DATE: 1998-08-12
EARLIER APPLICATION NUMBER: 60/095,454
EARLIER FILING DATE: 1998-08-06
EARLIER APPLICATION NUMBER: 60/095,455
EARLIER FILING DATE: 1998-08-06
NUMBER OF SEQ ID NOS: 376
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 160
LENGTH: 162
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: SITE
LOCATION: (162)
OTHER INFORMATION: Xaa equals stop translation
US-09-489-847-160

Query Match 77.1%; Score 37; DB 2; Length 162;
Best Local Similarity 66.7%; Pred. No. 19;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
QY 1 FAFRDLCIV 9
DB 30 FAFRLICIV 38

RESULT 24
US-09-489-847-320
Sequence 320, Application US/09489847
Patent No. 6476195
GENERAL INFORMATION:
APPLICANT: Rosen et al
TITLE OF INVENTION: 98 Human Secreted Proteins
FILE REFERENCE: P2031P1
CURRENT APPLICATION NUMBER: US/09/489,847
CURRENT FILING DATE: 2000-01-24
EARLIER APPLICATION NUMBER: PCT/US99/17130
EARLIER FILING DATE: 1999-07-29
EARLIER APPLICATION NUMBER: 60/094,657
EARLIER FILING DATE: 1998-07-30
EARLIER APPLICATION NUMBER: 60/095,486
EARLIER FILING DATE: 1998-08-05
EARLIER APPLICATION NUMBER: 60/096,319
EARLIER FILING DATE: 1998-08-12
EARLIER APPLICATION NUMBER: 60/095,454
EARLIER FILING DATE: 1998-08-06
EARLIER APPLICATION NUMBER: 60/095,455
EARLIER FILING DATE: 1998-08-06
NUMBER OF SEQ ID NOS: 376
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 320
LENGTH: 207
TYPE: prt
ORGANISM: Homo sapiens
US-09-489-847-320

Query Match 77.1%; Score 37; DB 2; Length 207;
Best Local Similarity 66.7%; Pred. No. 24;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 PAFRDLICV 9
Db 76 PAFRDLICV 84

RESULT 25
US-09-999-833A-7
Sequence 7, Application US/0999833A
Patent No. 6916648
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Batton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gertsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James J.
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
Acids Encoding the Same
FILE REFERENCE: P2630P1CS
CURRENT APPLICATION NUMBER: US/09/999,833A
CURRENT FILING DATE: 2001-10-24
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/077450
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: 60/077632
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077641
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077649
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077791
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: 60/078004
PRIOR FILING DATE: 1998-03-13
PRIOR APPLICATION NUMBER: 60/078886
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078936
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
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PRIOR APPLICATION NUMBER: 60/079294
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PRIOR FILING DATE: 1998-03-27
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PRIOR FILING DATE: 1998-03-27
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PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/079923
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/080105
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080107
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080165
PRIOR FILING DATE: 1998-03-31
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PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080327
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080328
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080333
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080334
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/081070
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081049
PRIOR FILING DATE: 1998-04-08

PRIOR APPLICATION NUMBER: 60/081071
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081195
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081203
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081229
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081955
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081817
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PRIOR FILING DATE: 1998-04-22
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PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082797
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082796
PRIOR FILING DATE: 1998-04-23
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PRIOR FILING DATE: 1998-04-27
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
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PRIOR APPLICATION NUMBER: 60/083496
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083499
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083545
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083554
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083558
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083559
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083500
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083742
PRIOR FILING DATE: 1998-04-30
PRIOR APPLICATION NUMBER: 60/084366
PRIOR FILING DATE: 1998-05-05
PRIOR APPLICATION NUMBER: 60/084414
PRIOR FILING DATE: 1998-05-06
PRIOR APPLICATION NUMBER: 60/084441
PRIOR FILING DATE: 1998-05-06
PRIOR APPLICATION NUMBER: 60/084637
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084639
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084640
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084598
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084627

PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084643
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/085339
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085338
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085323
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085582
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085700
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085689
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085579
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085580
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085573
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085704
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085697

Query Match 77.1% Score 37; DB 2; Length 492;
Best Local Similarity 66.7%; Pred. No. 57;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 1 FAFRLCIV 9
Db 361 FAFALCIV 369

RESULT 26
US-10-020-445A-7
Sequence 7, Application US/10020445A
Patent No. 6962797
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Baton, Dan
APPLICANT: Ferrata, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Geiber, Hanspeter
APPLICANT: Gerlisen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630PLC74
CURRENT FILING DATE: 2001-10-24
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30

PRIOR APPLICATION NUMBER: 60/062250	PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249	PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065111	PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066364	PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/077450	PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: 60/077632	PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077641	PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077649	PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077921	PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: 60/078004	PRIOR FILING DATE: 1998-03-13
PRIOR APPLICATION NUMBER: 60/078886	PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078936	PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078910	PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078939	PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294	PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079656	PRIOR FILING DATE: 1998-03-26
PRIOR APPLICATION NUMBER: 60/079664	PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079689	PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079663	PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079728	PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079786	PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079920	PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/079923	PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/080105	PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080107	PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080165	PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080194	PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080327	PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080328	PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080333	PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080334	PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/081070	PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081049	PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081071	PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081195	PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081203	PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081229	PRIOR FILING DATE: 1998-04-09

1	PRIOR FILING DATE: 1998-04-09
2	PRIOR APPLICATION NUMBER: 60/081955
3	PRIOR FILING DATE: 1998-04-15
4	PRIOR APPLICATION NUMBER: 60/081817
5	PRIOR FILING DATE: 1998-04-15
6	PRIOR APPLICATION NUMBER: 60/081819
7	PRIOR FILING DATE: 1998-04-15
8	PRIOR APPLICATION NUMBER: 60/081952
9	PRIOR FILING DATE: 1998-04-15
10	PRIOR APPLICATION NUMBER: 60/081838
11	PRIOR FILING DATE: 1998-04-15
12	PRIOR APPLICATION NUMBER: 60/082568
13	PRIOR FILING DATE: 1998-04-21
14	PRIOR APPLICATION NUMBER: 60/082569
15	PRIOR FILING DATE: 1998-04-21
16	PRIOR APPLICATION NUMBER: 60/082704
17	PRIOR FILING DATE: 1998-04-22
18	PRIOR APPLICATION NUMBER: 60/082797
19	PRIOR FILING DATE: 1998-04-22
20	PRIOR APPLICATION NUMBER: 60/082796
21	PRIOR FILING DATE: 1998-04-23
22	PRIOR APPLICATION NUMBER: 60/083336
23	PRIOR FILING DATE: 1998-04-27
24	PRIOR APPLICATION NUMBER: 60/083322
25	PRIOR FILING DATE: 1998-04-28
26	PRIOR APPLICATION NUMBER: 60/083392
27	PRIOR FILING DATE: 1998-04-29
28	PRIOR APPLICATION NUMBER: 60/083495
29	PRIOR FILING DATE: 1998-04-29
30	PRIOR APPLICATION NUMBER: 60/083496
31	PRIOR FILING DATE: 1998-04-29
32	PRIOR APPLICATION NUMBER: 60/083499
33	PRIOR FILING DATE: 1998-04-29
34	PRIOR APPLICATION NUMBER: 60/083545
35	PRIOR FILING DATE: 1998-04-29
36	PRIOR APPLICATION NUMBER: 60/083554
37	PRIOR FILING DATE: 1998-04-29
38	PRIOR APPLICATION NUMBER: 60/083558
39	PRIOR FILING DATE: 1998-04-29
40	PRIOR APPLICATION NUMBER: 60/083559
41	PRIOR FILING DATE: 1998-04-29
42	PRIOR APPLICATION NUMBER: 60/083500
43	PRIOR FILING DATE: 1998-04-29
44	PRIOR APPLICATION NUMBER: 60/083742
45	PRIOR FILING DATE: 1998-04-30
46	PRIOR APPLICATION NUMBER: 60/084366
47	PRIOR FILING DATE: 1998-05-05
48	PRIOR APPLICATION NUMBER: 60/084414
49	PRIOR FILING DATE: 1998-05-06
50	PRIOR APPLICATION NUMBER: 60/084441
51	PRIOR FILING DATE: 1998-05-06
52	PRIOR APPLICATION NUMBER: 60/084637
53	PRIOR FILING DATE: 1998-05-07
54	PRIOR APPLICATION NUMBER: 60/084639
55	PRIOR FILING DATE: 1998-05-07
56	PRIOR APPLICATION NUMBER: 60/084640
57	PRIOR FILING DATE: 1998-05-07
58	PRIOR APPLICATION NUMBER: 60/084598
59	PRIOR FILING DATE: 1998-05-07
60	PRIOR APPLICATION NUMBER: 60/084600
61	PRIOR FILING DATE: 1998-05-07
62	PRIOR APPLICATION NUMBER: 60/084627
63	PRIOR FILING DATE: 1998-05-07
64	PRIOR APPLICATION NUMBER: 60/084643
65	PRIOR FILING DATE: 1998-05-07
66	PRIOR APPLICATION NUMBER: 60/085339
67	PRIOR FILING DATE: 1998-05-13
68	PRIOR APPLICATION NUMBER: 60/085348
69	PRIOR FILING DATE: 1998-05-13

; PRIOR APPLICATION NUMBER: 60/085523
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085582
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085700
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085689
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085579
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085580
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085573
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085704
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697

Query Match 77.1%; Score 37; DB 2; Length 492;
Best Local Similarity 66.7%; Pred. No. 57;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFRDLCV 9
Db 361 FAFALCV 369

RESULT 27
US-09-949-016-6312
; Sequence 6312, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6312
; LENGTH: 411
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-6312

Query Match 72.9%; Score 35; DB 2; Length 411;
Best Local Similarity 75.0%; Pred. No. 1.1e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 FAFRDLCI 8
Db 236 FTFNDLCI 303

RESULT 28
US-09-949-016-9493
; Sequence 9493, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755

; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9493
; LENGTH: 414
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-9493

Query Match 72.9%; Score 35; DB 2; Length 414;
Best Local Similarity 75.0%; Pred. No. 1.1e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 FAFRDLCI 8
Db 299 FTFNDLCI 306

RESULT 29
US-08-776-059-43
; Sequence 43, Application US/08776059B
; Patent No. 6271368
; GENERAL INFORMATION:
; APPLICANT: LENTZEN, Hans
; APPLICANT: BAUR, Jurgen
; APPLICANT: ZINKE, Holger
; TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
; FILE REFERENCE: 674503-2003
; CURRENT APPLICATION NUMBER: US/08/776,059B
; CURRENT FILING DATE: 1999-06-19
; EARLIER APPLICATION NUMBER: PCT/EP96/02273
; EARLIER FILING DATE: 1996-06-25
; EARLIER APPLICATION NUMBER: 95109949.8
; EARLIER FILING DATE: 1995-06-26
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 43
; LENGTH: 263
; TYPE: PRT
; ORGANISM: Viscum album
US-08-776-059-43

Query Match 70.8%; Score 34; DB 2; Length 263;
Best Local Similarity 62.5%; Pred. No. 1.1e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFRDLCI 8
Db 146 YGFRDLCM 153

RESULT 30
US-09-627-165E-10
; Sequence 10, Application US/09627165E
; Patent No. 6846913
; GENERAL INFORMATION:
; APPLICANT: KIM, Jong-Bae
; TITLE OF INVENTION: CRUDE EXTRACT FROM Viscum album coloratum, AND PROTEINS
; FILE REFERENCE: AND LECTINS ISOLATED THEREFROM
; CURRENT APPLICATION NUMBER: US/09/627,165E
; CURRENT FILING DATE: 2000-07-27
; NUMBER OF SEQ ID NOS: 80
; SEQ ID NO 10
; LENGTH: 263
; TYPE: PRT
; ORGANISM: Viscum album coloratum
; FEATURE:

NAME/KEY: misc_feature
US-09-627-165E-10

Query Match 70.8%; Score 34; DB 2; Length 263;
Best Local Similarity 62.5%; Pred. No. 1.1e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFRDLCI 8
: |||||:
DB 146 YGFRDLCLM 153

RESULT 31
US-09-627-165E-12
Sequence 12, Application US/09627165E
Patent No. 6846913

GENERAL INFORMATION:
APPLICANT: KIM, Jong-Bae
TITLE OF INVENTION: CRUDE EXTRACT FROM VISCUM album coloratum, AND PROTEINS
FILE REFERENCE: Korean Mistletoe Lectin
CURRENT APPLICATION NUMBER: US/09/627,165E
NUMBER OF SEQ ID NOS: 80
SEQ ID NO 12
LENGTH: 263
TYPE: PRT
ORGANISM: Viscum album coloratum
FEATURE:
NAME/KEY: misc_feature
LOCATION: 161
OTHER INFORMATION: Xaa = any amino acid
US-09-627-165E-12

Query Match 70.8%; Score 34; DB 2; Length 263;
Best Local Similarity 62.5%; Pred. No. 1.1e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFRDLCI 8
: |||||:
DB 146 YGFRDLCLM 153

RESULT 32
US-09-601-667C-6
Sequence 6, Application US/09601667C
Patent No. 6927207

GENERAL INFORMATION:
APPLICANT: Morris, Peter
APPLICANT: Stiefel, Thomas
APPLICANT: Voelter, Wolfgang
APPLICANT: Welters, Peter
TITLE OF INVENTION: Recombinant Mistletoe Lectins
FILE REFERENCE: 29841/36636
CURRENT APPLICATION NUMBER: US/09/601,667C
CURRENT FILING DATE: 2000-10-06
PRIOR APPLICATION NUMBER: PCT/EP99/00696
PRIOR FILING DATE: 1999-02-03
PRIOR APPLICATION NUMBER: D 198 04 210.8
PRIOR FILING DATE: 1998-02-03
NUMBER OF SEQ ID NOS: 41
SEQ ID NO 6
LENGTH: 263
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: mistletoe lectin B
US-09-601-667C-6

Query Match 70.8%; Score 34; DB 2; Length 263;
Best Local Similarity 62.5%; Pred. No. 1.1e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFRDLCI 8
: |||||:
DB 146 YGFRDLCLM 153

RESULT 33
US-08-776-059-33
Sequence 33, Application US/08776059B
Patent No. 6271368

GENERAL INFORMATION:
APPLICANT: LENTZEN, Hans
APPLICANT: ECK, Jurgen
APPLICANT: BAUR, Axel
APPLICANT: ZINKE, Holger
TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
FILE REFERENCE: 674503-2003
CURRENT APPLICATION NUMBER: US/08/776,059B
CURRENT FILING DATE: 1999-06-19
EARLIER APPLICATION NUMBER: PCT/EP96/02273
EARLIER FILING DATE: 1996-06-25
EARLIER APPLICATION NUMBER: 95109949.8
EARLIER FILING DATE: 1995-06-26
NUMBER OF SEQ ID NOS: 56
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 33
LENGTH: 264
TYPE: PRT
ORGANISM: Viscum album
US-08-776-059-33

Query Match 70.8%; Score 34; DB 2; Length 264;
Best Local Similarity 62.5%; Pred. No. 1.1e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFRDLCI 8
: |||||:
DB 147 YGFRDLCLM 154

RESULT 34
US-09-601-667C-3
Sequence 3, Application US/09601667C
Patent No. 6927207

GENERAL INFORMATION:
APPLICANT: Morris, Peter
APPLICANT: Stiefel, Thomas
APPLICANT: Voelter, Wolfgang
APPLICANT: Welters, Peter
TITLE OF INVENTION: Recombinant Mistletoe Lectins
FILE REFERENCE: 29841/36636
CURRENT APPLICATION NUMBER: US/09/601,667C
CURRENT FILING DATE: 2000-10-06
PRIOR APPLICATION NUMBER: PCT/EP99/00696
PRIOR FILING DATE: 1999-02-03
PRIOR APPLICATION NUMBER: D 198 04 210.8
PRIOR FILING DATE: 1998-02-03
NUMBER OF SEQ ID NOS: 41
SEQ ID NO 3
LENGTH: 264
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: MLB-chain
NAME/KEY: SITE
LOCATION: 18
OTHER INFORMATION: product= "Xaa is Asn or Ser"
FEATURE:
NAME/KEY: SITE
LOCATION: 21
OTHER INFORMATION: product= "Xaa is Cys or Arg"
OTHER INFORMATION: /label= X2

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FEATURE:
NAME/KEY: SITE
LOCATION: 56
OTHER INFORMATION: product= "Xaa is Gly or Asn"
FEATURE:
NAME/KEY: SITE
LOCATION: 95
OTHER INFORMATION: product= "Xaa is Gly or Asp"
FEATURE:
NAME/KEY: SITE
LOCATION: 157
OTHER INFORMATION: product= "Xaa is Gly or Gln"
FEATURE:
NAME/KEY: SITE
LOCATION: 166
OTHER INFORMATION: product= "Xaa is Val or Asp"
FEATURE:
NAME/KEY: SITE
LOCATION: 170
OTHER INFORMATION: product= "Xaa is Gln or Lys"
FEATURE:
NAME/KEY: SITE
LOCATION: 173
OTHER INFORMATION: product= "Xaa is Gly or missing"
FEATURE:
NAME/KEY: SITE
LOCATION: 174
OTHER INFORMATION: product= "Xaa is Arg or Lys"
FEATURE:
NAME/KEY: SITE
LOCATION: 195
OTHER INFORMATION: product= "Xaa is Cys or Ser or Val"
FEATURE:
NAME/KEY: SITE
LOCATION: 211
OTHER INFORMATION: product= "Xaa is Ala or Gly"
FEATURE:
NAME/KEY: SITE
LOCATION: 212
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NAME/KEY: SITE
LOCATION: 214
OTHER INFORMATION: product= "Xaa is Ser or Gly"
FEATURE:
NAME/KEY: SITE
LOCATION: 215
OTHER INFORMATION: product= "Xaa is Gly or Ser"
FEATURE:
NAME/KEY: SITE
LOCATION: 224
OTHER INFORMATION: product= "Xaa is Gly or Tyr"
FEATURE:
NAME/KEY: SITE
LOCATION: 231
OTHER INFORMATION: product= "Xaa is Asn or Ser or Thr or Lys"
FEATURE:
NAME/KEY: SITE
LOCATION: 232
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OTHER INFORMATION: product= "Xaa is Ser or Gly"
OTHER INFORMATION: /label= Xaa17
FEATURE:
NAME/KEY: SITE
LOCATION: 233
OTHER INFORMATION: product= "Xaa is Leu or Pro"
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NAME/KEY: SITE
LOCATION: 234
OTHER INFORMATION: product= "Xaa is Ala or Met"
FEATURE:
NAME/KEY: SITE
LOCATION: 235
OTHER INFORMATION: product= "Xaa is Met or Val"
FEATURE:
NAME/KEY: SITE
LOCATION: 264
OTHER INFORMATION: product= "Xaa is Pro or Phe"
OTHER INFORMATION: /label= Xaa21
US-09-601-667C-3

Query Match
Best Local Similarity 70.8%; Score 34; DB 2; Length 264;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy
1 PAFRDLCT 8
: |||||:
Db 146 YGFRDLQM 153

RESULT 35
US-09-601-667C-7
; Sequence 7, Application US/09601667C
; Patent No. 6927207
; GENERAL INFORMATION:
; APPLICANT: Morris, Peter
; APPLICANT: Stiefel, Thomas
; APPLICANT: Voelter, Wolfgang
; APPLICANT: Woelters, Peter
; TITLE OF INVENTION: Recombinant Mistletoe Lectins
; FILE REFERENCE: 29841/36636
; CURRENT APPLICATION NUMBER: US/09/601,667C
; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: PCT/EP99/00696
; PRIOR FILING DATE: 1999-02-03
; PRIOR APPLICATION NUMBER: D 198 04 210.8
; PRIOR FILING DATE: 1998-02-03
; NUMBER OF SEQ ID NOS: 41
; SEQ ID NO 7
; LENGTH: 264
; TYPE: PRY
; ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: mistletoe lectin 1 (match)
US-09-601-667C-7

Query Match
Best Local Similarity 70.8%; Score 34; DB 2; Length 264;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy
1 PAFRDLCT 8
: |||||:
Db 146 YGFRDLQM 153

RESULT 36
US-09-601-667C-8
; Sequence 8, Application US/09601667C
; Patent No. 6927207
; GENERAL INFORMATION:
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; APPLICANT: Morris, Peter
; APPLICANT: Stiefel, Thomas
; APPLICANT: Voelter, Wolfgang
; APPLICANT: Welters, Peter
; TITLE OF INVENTION: Recombinant Mistletoe Lectins
; FILE REFERENCE: 29841/36636
; CURRENT APPLICATION NUMBER: US/09/601,667C
; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: PCT/EP99/00696
; PRIOR FILING DATE: 1999-02-03
; PRIOR APPLICATION NUMBER: D 198 04 210.8
; PRIOR FILING DATE: 1998-02-03
; NUMBER OF SEQ ID NOS: 41
; SEQ ID NO 8
; LENGTH: 264
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: mistletoe lectin B2 (match)
US-09-601-667C-8
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Query Match          70.8%; Score 34; DB 2; Length 264;
Best Local Similarity 62.5%; Pred. No. 1.1e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
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QY      1 FAFRDLCI 8
       : |||||:
Db      146 YGFRDLCM 153
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RESULT 37
US-09-601-667C-9
; Sequence 9, Application US/09601667C
; Patent No. 6927207
; GENERAL INFORMATION:
; APPLICANT: Morris, Peter
; APPLICANT: Stiefel, Thomas
; APPLICANT: Voelter, Wolfgang
; APPLICANT: Welters, Peter
; TITLE OF INVENTION: Recombinant Mistletoe Lectins
; FILE REFERENCE: 29841/36636
; CURRENT APPLICATION NUMBER: US/09/601,667C
; CURRENT FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: PCT/EP99/00696
; PRIOR FILING DATE: 1999-02-03
; PRIOR APPLICATION NUMBER: D 198 04 210.8
; PRIOR FILING DATE: 1998-02-03
; NUMBER OF SEQ ID NOS: 41
; SEQ ID NO 9
; LENGTH: 264
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: mistletoe lectin B3 (match)
US-09-601-667C-9
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Query Match          70.8%; Score 34; DB 2; Length 264;
Best Local Similarity 62.5%; Pred. No. 1.1e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
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```
QY      1 FAFRDLCI 8
       : |||||:
Db      146 YGFRDLCM 153
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RESULT 38
US-09-601-667C-10
; Sequence 10, Application US/09601667C
; Patent No. 6927207
; GENERAL INFORMATION:
; APPLICANT: Morris, Peter
; APPLICANT: Stiefel, Thomas
; APPLICANT: Voelter, Wolfgang
```

```

; APPLICANT: Welters, Peter
; TITLE OF INVENTION: Recombinant Mistletoe Lectins
; FILE REFERENCE: 29841/36636
; CURRENT APPLICATION NUMBER: US/09/601,667C
; CURRENT FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: PCT/EP99/00696
; PRIOR FILING DATE: 1999-02-03
; PRIOR APPLICATION NUMBER: D 198 04 210.8
; PRIOR FILING DATE: 1998-02-03
; NUMBER OF SEQ ID NOS: 41
; SEQ ID NO 10
; LENGTH: 264
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: mistletoe lectin B4 (match)
US-09-601-667C-10
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```

Query Match          70.8%; Score 34; DB 2; Length 264;
Best Local Similarity 62.5%; Pred. No. 1.1e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
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```
QY      1 FAFRDLCI 8
       : |||||:
Db      146 YGFRDLCM 153
```

```

RESULT 39
US-09-601-667C-11
; Sequence 11, Application US/09601667C
; Patent No. 6927207
; GENERAL INFORMATION:
; APPLICANT: Morris, Peter
; APPLICANT: Stiefel, Thomas
; APPLICANT: Voelter, Wolfgang
; APPLICANT: Welters, Peter
; TITLE OF INVENTION: Recombinant Mistletoe Lectins
; FILE REFERENCE: 29841/36636
; CURRENT APPLICATION NUMBER: US/09/601,667C
; CURRENT FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: PCT/EP99/00696
; PRIOR FILING DATE: 1999-02-03
; PRIOR APPLICATION NUMBER: D 198 04 210.8
; PRIOR FILING DATE: 1998-02-03
; NUMBER OF SEQ ID NOS: 41
; SEQ ID NO 11
; LENGTH: 264
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: mistletoe lectin B5 (match)
US-09-601-667C-11
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```

Query Match          70.8%; Score 34; DB 2; Length 264;
Best Local Similarity 62.5%; Pred. No. 1.1e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
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```
QY      1 FAFRDLCI 8
       : |||||:
Db      146 YGFRDLCM 153
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```

RESULT 40
US-09-252-991A-26698
; Sequence 26698, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
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; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 26698
; LENGTH: 379
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-26698

Query Match
Best Local Similarity 70.8%; Score 34; DB 2; Length 379;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1 FAFRDLG 7
Db      285 FAFADLC 291

RESULT 41
US-09-601-667C-4
; Sequence 4, Application US/09601667C
; Patent No. 6927207
; GENERAL INFORMATION:
; APPLICANT: Morris, Peter
; APPLICANT: Stiefel, Thomas
; APPLICANT: Voelter, Wolfgang
; APPLICANT: Welteers, Peter
; TITLE OF INVENTION: Recombinant Mistletoe Lectins
; FILE REFERENCE: 29841/36636
; CURRENT APPLICATION NUMBER: US/09/601,667C
; CURRENT FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: PCT/EP99/00696
; PRIOR FILING DATE: 1999-02-03
; PRIOR APPLICATION NUMBER: D 198 04 210.8
; PRIOR FILING DATE: 1998-02-03
; NUMBER OF SEQ ID NOS: 41
; SEQ ID NO 4
; LENGTH: 531
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: MLI match
US-09-601-667C-4

Query Match
Best Local Similarity 70.8%; Score 34; DB 2; Length 531;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      1 FAFRDLG 8
Db      414 YGFRDLGM 421

RESULT 42
US-09-601-667C-1
; Sequence 1, Application US/09601667C
; Patent No. 6927207
; GENERAL INFORMATION:
; APPLICANT: Morris, Peter
; APPLICANT: Stiefel, Thomas
; APPLICANT: Voelter, Wolfgang
; APPLICANT: Welteers, Peter
; TITLE OF INVENTION: Recombinant Mistletoe Lectins
; FILE REFERENCE: 29841/36636
; CURRENT APPLICATION NUMBER: US/09/601,667C
; CURRENT FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: PCT/EP99/00696
; PRIOR FILING DATE: 1999-02-03
; PRIOR APPLICATION NUMBER: D 198 04 210.8
; PRIOR FILING DATE: 1998-02-03
; NUMBER OF SEQ ID NOS: 41
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; SEQ ID NO 1
; LENGTH: 533
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: mistletoe lectin
; FEATURE:
; NAME/KEY: SITE
; LOCATION: 15
; OTHER INFORMATION: product= "Xaa is Asp or Glu"
; OTHER INFORMATION: /label= Xaa1
; FEATURE:
; NAME/KEY: SITE
; LOCATION: 63
; OTHER INFORMATION: product= "Xaa is Gly or Gln"
; OTHER INFORMATION: /label= Xaa2
; FEATURE:
; NAME/KEY: SITE
; LOCATION: 66
; OTHER INFORMATION: product= "Xaa is Ile or Val"
; OTHER INFORMATION: /label= Xaa3
; FEATURE:
; NAME/KEY: SITE
; LOCATION: 75
; OTHER INFORMATION: product= "Xaa is Leu or Ala"
; OTHER INFORMATION: /label= Xaa4
; FEATURE:
; NAME/KEY: SITE
; LOCATION: 107
; OTHER INFORMATION: product= "Xaa is missing"
; OTHER INFORMATION: /label= Xaa5
; FEATURE:
; NAME/KEY: SITE
; LOCATION: 113
; OTHER INFORMATION: product= "Xaa is Asn or Thr"
; OTHER INFORMATION: /label= Xaa6
; FEATURE:
; NAME/KEY: SITE
; LOCATION: 117
; OTHER INFORMATION: product= "Xaa is Pro or Thr"
; OTHER INFORMATION: /label= Xaa7
; FEATURE:
; NAME/KEY: SITE
; LOCATION: 134
; OTHER INFORMATION: product= "Xaa is Asp or Glu"
; OTHER INFORMATION: /label= Xaa8
; FEATURE:
; NAME/KEY: SITE
; LOCATION: 141
; OTHER INFORMATION: product= "Xaa is Ser or Thr"
; OTHER INFORMATION: /label= Xaa9
; FEATURE:
; NAME/KEY: SITE
; LOCATION: 145
; OTHER INFORMATION: product= "Xaa is Phe or Tyr"
; OTHER INFORMATION: /label= Xaa10
; FEATURE:
; NAME/KEY: SITE
; LOCATION: 152
; OTHER INFORMATION: product= "Xaa is Thr or Ala"
; OTHER INFORMATION: /label= Xaa11
; FEATURE:
; NAME/KEY: SITE
; LOCATION: 177
; OTHER INFORMATION: product= "Xaa is Ala or Tyr"
; OTHER INFORMATION: /label= Xaa12
; FEATURE:
; NAME/KEY: SITE
; LOCATION: 180
; OTHER INFORMATION: product= "Xaa is Tyr or Asp"
; OTHER INFORMATION: /label= Xaa13
; FEATURE:
; NAME/KEY: SITE
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/ LOCATION: 165
/ OTHER INFORMATION: product= "Xaa is Ala or Glu"
/ FEATURE:
/ OTHER INFORMATION: /label= Xaa14
/ NAME/KEY: SITE
/ LOCATION: 191
/ OTHER INFORMATION: product= "Xaa is Val or Met"
/ FEATURE:
/ OTHER INFORMATION: /label= Xaa15
/ NAME/KEY: SITE
/ LOCATION: 219
/ OTHER INFORMATION: product= "Xaa is Ile or Phe"
/ FEATURE:
/ OTHER INFORMATION: /label= Xaa16
/ NAME/KEY: SITE
/ LOCATION: 224
/ OTHER INFORMATION: product= "Xaa is Pro or Ser"
/ FEATURE:
/ OTHER INFORMATION: /label= Xaa17
/ NAME/KEY: SITE
/ LOCATION: 225
/ OTHER INFORMATION: product= "Xaa is Pro or Thr"
/ FEATURE:
/ OTHER INFORMATION: /label= Xaa18
/ NAME/KEY: SITE
/ LOCATION: 232
/ OTHER INFORMATION: product= "Xaa is Thr or Ser"
/ FEATURE:
/ OTHER INFORMATION: /label= Xaa19
/ NAME/KEY: SITE
/ LOCATION: 236
/ OTHER INFORMATION: product= "Xaa is Asp or Ser"
/ FEATURE:
/ OTHER INFORMATION: /label= Xaa20
/ NAME/KEY: SITE
/ LOCATION: 287
/ OTHER INFORMATION: product= "Xaa is Asn or Ser"
/ FEATURE:
/ OTHER INFORMATION: /label= Xaa21
/ NAME/KEY: SITE
/ LOCATION: 290
/ OTHER INFORMATION: product= "Xaa is Cys or Arg"
/ FEATURE:
/ OTHER INFORMATION: /label= Xaa22
/ NAME/KEY: SITE
/ LOCATION: 325
/ OTHER INFORMATION: product= "Xaa is Gly or Asn"
/ FEATURE:
/ OTHER INFORMATION: /label= Xaa23
/ NAME/KEY: SITE
/ LOCATION: 364
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/ FEATURE:
/ OTHER INFORMATION: /label= Xaa24
/ NAME/KEY: SITE
/ LOCATION: 426
/ OTHER INFORMATION: product= "Xaa is Gly or Gln"
/ FEATURE:
/ OTHER INFORMATION: /label= Xaa25
/ NAME/KEY: SITE
/ LOCATION: 439
/ OTHER INFORMATION: product= "Xaa is Gln or Lys"
/ FEATURE:
/ OTHER INFORMATION: /label= Xaa27
/ NAME/KEY: SITE
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/ OTHER INFORMATION: product= "Xaa is Gly or missing"
/ FEATURE:
/ OTHER INFORMATION: /label= Xaa28

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/ FEATURE:
/ NAME/KEY: SITE
/ LOCATION: 443
/ OTHER INFORMATION: product= "Xaa is Arg or Lys"
/ FEATURE:
/ OTHER INFORMATION: /label= Xaa29
/ NAME/KEY: SITE
/ LOCATION: 464
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/ FEATURE:
/ OTHER INFORMATION: /label= Xaa30
/ NAME/KEY: SITE
/ LOCATION: 480
/ OTHER INFORMATION: product= "Xaa is Ala or Gly"
/ FEATURE:
/ OTHER INFORMATION: /label= Xaa
/ NAME/KEY: SITE
/ LOCATION: 481
/ OTHER INFORMATION: product= "Xaa is Gly or Ala"
/ FEATURE:
/ OTHER INFORMATION: /label= Xaa32
/ NAME/KEY: SITE
/ LOCATION: 483
/ OTHER INFORMATION: product= "Xaa is Ser or Gly"
/ FEATURE:
/ OTHER INFORMATION: /label= Xaa33
/ NAME/KEY: SITE
/ LOCATION: 484
/ OTHER INFORMATION: product= "Xaa is Gly or Ser"
/ FEATURE:
/ OTHER INFORMATION: /label= Xaa34
/ NAME/KEY: SITE
/ LOCATION: 493
/ OTHER INFORMATION: product= "Xaa is Gly or Tyr"
/ FEATURE:
/ OTHER INFORMATION: /label= Xaa35
/ NAME/KEY: SITE
/ LOCATION: 500

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Query Match          70.8%; Score 34; DB 2; Length 533;
Best Local Similarity 62.5%; Pred. No. 2.2e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

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QY      1 FAFRDLCT 8
Db       415 YGFRDLCT 422

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RESULT 43
US-09-601-667C-40
/ Sequence 40, Application US/09601667C
/ Patent No. 6927207
/ GENERAL INFORMATION:
/ APPLICANT: Morris, Peter
/ APPLICANT: Stiefel, Thomas
/ APPLICANT: Voelter, Wolfgang
/ TITLE OF INVENTION: Recombinant Mistletoe Lectins
/ FILE REFERENCE: 29841/3636
/ CURRENT APPLICATION NUMBER: US/09/601,667C
/ PRIOR FILING DATE: 2000-10-06
/ PRIOR APPLICATION NUMBER: PCT/EP99/00696
/ PRIOR FILING DATE: 1999-02-03
/ PRIOR FILING DATE: 1998-02-03
/ NUMBER OF SEQ ID NOS: 41
/ SEQ ID NO 40
/ LENGTH: 534
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: mistletoe lectin
/ FEATURE:

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NAME/KEY: SITE
LOCATION: (15)..(15)
OTHER INFORMATION: Xaa is Asp or Glu
FEATURE:
NAME/KEY: SITE
LOCATION: (63)..(63)
OTHER INFORMATION: Xaa is Gly or Gln
FEATURE:
NAME/KEY: SITE
LOCATION: (66)..(66)
OTHER INFORMATION: Xaa is Ile or Val
FEATURE:
NAME/KEY: SITE
LOCATION: (75)..(75)
OTHER INFORMATION: Xaa is Leu or Ala
FEATURE:
NAME/KEY: SITE
LOCATION: (114)..(114)
OTHER INFORMATION: Xaa is Asn or Thr
FEATURE:
NAME/KEY: SITE
LOCATION: (118)..(118)
OTHER INFORMATION: Xaa is Pro or Thr
FEATURE:
NAME/KEY: SITE
LOCATION: (135)..(135)
OTHER INFORMATION: Xaa is Asp or Glu
FEATURE:
NAME/KEY: SITE
LOCATION: (142)..(142)
OTHER INFORMATION: Xaa is Ser or Thr
FEATURE:
NAME/KEY: SITE
LOCATION: (146)..(146)
OTHER INFORMATION: Xaa is Phe or Tyr
FEATURE:
NAME/KEY: SITE
LOCATION: (153)..(153)
OTHER INFORMATION: Xaa is Thr or Ala
FEATURE:
NAME/KEY: SITE
LOCATION: (178)..(178)
OTHER INFORMATION: Xaa is Ala or Tyr
FEATURE:
NAME/KEY: SITE
LOCATION: (181)..(181)
OTHER INFORMATION: Xaa is Tyr or Asp
FEATURE:
NAME/KEY: SITE
LOCATION: (186)..(186)
OTHER INFORMATION: Xaa is Ala or Glu
FEATURE:
NAME/KEY: SITE
LOCATION: (192)..(192)
OTHER INFORMATION: Xaa is Val or Met
FEATURE:
NAME/KEY: SITE
LOCATION: (220)..(220)
OTHER INFORMATION: Xaa is Ile or Phe
FEATURE:
NAME/KEY: SITE
LOCATION: (225)..(225)
OTHER INFORMATION: Xaa is Pro or Ser
FEATURE:
NAME/KEY: SITE
LOCATION: (226)..(226)
OTHER INFORMATION: Xaa is Pro or Thr
FEATURE:
NAME/KEY: SITE
LOCATION: (233)..(233)
OTHER INFORMATION: Xaa is Thr or Ser
FEATURE:
NAME/KEY: SITE

LOCATION: (237)..(237)
OTHER INFORMATION: Xaa is Asp or Ser
FEATURE:
NAME/KEY: SITE
LOCATION: (288)..(288)
OTHER INFORMATION: Xaa is Asn or Ser
FEATURE:
NAME/KEY: SITE
LOCATION: (291)..(291)
OTHER INFORMATION: Xaa is Cys or Arg
FEATURE:
NAME/KEY: SITE
LOCATION: (326)..(326)
OTHER INFORMATION: Xaa is Gly or Asn
FEATURE:
NAME/KEY: SITE
LOCATION: (365)..(365)
OTHER INFORMATION: Xaa is Gly or Asp
FEATURE:
NAME/KEY: SITE
LOCATION: (427)..(427)
OTHER INFORMATION: Xaa is Gly or Gln
FEATURE:
NAME/KEY: SITE
LOCATION: (436)..(436)
OTHER INFORMATION: Xaa is Val or Asp
FEATURE:
NAME/KEY: SITE
LOCATION: (440)..(440)
OTHER INFORMATION: Xaa is Gln or Lys
FEATURE:
NAME/KEY: SITE
LOCATION: (443)..(443)
OTHER INFORMATION: Xaa is Gly or missing
FEATURE:
NAME/KEY: SITE
LOCATION: (444)..(444)
OTHER INFORMATION: Xaa is Arg or Lys
FEATURE:
NAME/KEY: SITE
LOCATION: (465)..(465)
OTHER INFORMATION: Xaa is Cys or Ser or Val
FEATURE:
NAME/KEY: SITE
LOCATION: (481)..(481)
OTHER INFORMATION: Xaa is Ala or Gly
FEATURE:
NAME/KEY: SITE
LOCATION: (482)..(482)
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FEATURE:
NAME/KEY: SITE
LOCATION: (484)..(484)
OTHER INFORMATION: Xaa is Ser or Gly
FEATURE:
NAME/KEY: SITE
LOCATION: (485)..(485)
OTHER INFORMATION: Xaa is Gly or Ser
FEATURE:
NAME/KEY: SITE
LOCATION: (494)..(494)
OTHER INFORMATION: Xaa is Gly or Tyr
FEATURE:
NAME/KEY: SITE
LOCATION: (501)..(501)
OTHER INFORMATION: Xaa is Asn or Ser or Thr or Lys
FEATURE:
NAME/KEY: SITE
LOCATION: (502)..(502)
OTHER INFORMATION: Xaa is Ser or Gly
FEATURE:
NAME/KEY: SITE
LOCATION: (503)..(503)


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OTHER INFORMATION: Xaa is Leu or Pro
FEATURE:
NAME/KEY: SITE
LOCATION: (504) ..(504)
OTHER INFORMATION: Xaa is Ala or Met
FEATURE:
NAME/KEY: SITE
LOCATION: (505) ..(505)
OTHER INFORMATION: Xaa is Met or Val
FEATURE:
NAME/KEY: SITE
LOCATION: (534) ..(534)
OTHER INFORMATION: Xaa is Pro or Phe
US-09-601-667C-40

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Query Match          70.8%; Score 34; DB 2; Length 534;
Best Local Similarity 62.5%; Pred. No. 2.2e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

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Qy      1 FAFRDLCI 8
Db      416 YGFRDLCLM 423

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RESULT 44
US-08-776-059-35
Sequence 35, Application US/08776059B
GENERAL INFORMATION:
APPLICANT: LENTZEN, Hans
APPLICANT: ECK, Jurgen
APPLICANT: BAUR, Axel
APPLICANT: ZINK, Holger
TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
FILE REFERENCE: 674503-2003
CURRENT APPLICATION NUMBER: US/08/776, 059B
EARLIER FILING DATE: 1999-06-19
EARLIER APPLICATION NUMBER: PCT/EP96/02273
EARLIER FILING DATE: 1996-06-25
EARLIER APPLICATION NUMBER: 95109949.8
EARLIER FILING DATE: 1995-06-26
NUMBER OF SEQ ID NOS: 56
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 35
LENGTH: 564
TYPE: PRT
ORGANISM: Viscum album
US-08-776-059-35

```

```

Query Match          70.8%; Score 34; DB 2; Length 564;
Best Local Similarity 62.5%; Pred. No. 2.3e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

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Qy      1 FAFRDLCI 8
Db      447 YGFRDLCLM 454

```

```

RESULT 45
US-09-543-681A-7008
Sequence 7008, Application US/09543681A
Patent No. 6605709
GENERAL INFORMATION:
APPLICANT: GARY BRETTON
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
FILE REFERENCE: 2709.1002-001
CURRENT APPLICATION NUMBER: US/09/543, 681A
CURRENT FILING DATE: 2000-04-05
PRIOR APPLICATION NUMBER: US 60/128, 706
PRIOR FILING DATE: 1999-04-09
NUMBER OF SEQ ID NOS: 8344
SEQ ID NO 7008

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LENGTH: 90
TYPE: PRT
ORGANISM: Proteus mirabilis
US-09-543-681A-7008

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Query Match          68.8%; Score 33; DB 2; Length 90;
Best Local Similarity 71.4%; Pred. No. 57;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

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Qy      1 FAFRDLCI 7
Db      11 FSPDLCL 17

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RESULT 46
US-08-247-904B-10
Sequence 10, Application US/08247904B
Patent No. 5981699
GENERAL INFORMATION:
APPLICANT: Rolfe, Mark
APPLICANT: Eckstein, Jens W.
TITLE OF INVENTION: Human Ubiquitin Conjugating Enzyme
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley, Hoag & Eliot
STREET: One Post Office Square
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02109

```

```

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII(text)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/247, 904B
FILING DATE: 23-MAY-1994
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Vincent, Matthew P.
REGISTRATION NUMBER: 36,709
REFERENCE/DOCKET NUMBER: MIV-029.01
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 832-7000
TELEFAX: (617) 832-7000
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 158 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-247-904B-10

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Query Match          68.8%; Score 33; DB 1; Length 158;
Best Local Similarity 66.7%; Pred. No. 93;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

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Qy      1 FAFRDLCLV 9
Db      47 FAFRDLCLV 55

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RESULT 47
US-08-767-942A-19
Sequence 19, Application US/08767942A
Patent No. 6068982
GENERAL INFORMATION:
APPLICANT: Rolfe, Mark
APPLICANT: Chiu, M. Isabel
APPLICANT: Berlin, Vivian
APPLICANT: Damagnez, Veronique

```

```

1 APPLICANT: Draetta, Giulio
2 APPLICANT: Guillaume, Cottarel
3 TITLE OF INVENTION: UBIQUITIN CONJUGATING ENZYMES
4 NUMBER OF SEQUENCES: 45
5 CORRESPONDENCE ADDRESS:
6 ADDRESSEE: FOLEY, HONG & ELIOT LLP
7 STREET: One Post Office Square
8 CITY: Boston
9 STATE: MA
10 COUNTRY: USA
11 ZIP: 02109-2170
12
13 COMPUTER READABLE FORM:
14 MEDIUM TYPE: Floppy disk
15 COMPUTER: IBM PC compatible
16 OPERATING SYSTEM: PC-DOS/MS-DOS
17 SOFTWARE: Patentin Release #1.0, Version #1.30
18 CURRENT APPLICATION DATA:
19 APPLICATION NUMBER: US/08/767,942A
20 FILING DATE: 17-DEC-1996
21 ATTORNEY/AGENT INFORMATION:
22 NAME: Vincent, Matthew P.
23 REGISTRATION NUMBER: 36,709
24 REFERENCE/DOCKET NUMBER: MY-029.04
25 TELECOMMUNICATION INFORMATION:
26 TELEPHONE: 617-832-1000
27 TELEFAX: 617-832-7000
28 INFORMATION FOR SEQ ID NO: 19:
29 SEQUENCE CHARACTERISTICS:
30 LENGTH: 158 amino acids
31 TYPE: amino acid
32 TOPOLOGY: linear
33 MOLECULE TYPE: protein
34 US-08-767-942A-19
35
36 Query Match 68.8%; Score 33; DB 2; Length 158;
37 Best Local Similarity 66.7%; Pred. No. 99;
38 Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
39
40 Db 47 PAFKDLFV 55
41
42 RESULT 48
43 US-08-117-083-14
44 Sequence 14, Application US/08117083
45 Patent No. 5719054
46 GENERAL INFORMATION:
47 APPLICANT: Bourneil, Michael E.
48 APPLICANT: Inglis, Stephen C.
49 APPLICANT: Munro, Alan J.
50 TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human
51 TITLE OF INVENTION: Papilloma Virus Proteins
52 NUMBER OF SEQUENCES: 70
53 CORRESPONDENCE ADDRESS:
54 ADDRESSEE: Walter H. Dreger
55 STREET: 4 Embarcadero Center, Suite 3400
56 CITY: San Francisco
57 STATE: CA
58 COUNTRY: USA
59 ZIP: 94111
60 COMPUTER READABLE FORM:
61 MEDIUM TYPE: Floppy disk
62 COMPUTER: IBM PC compatible
63 OPERATING SYSTEM: PC-DOS/MS-DOS
64 SOFTWARE: Patentin Release #1.0, Version #1.25
65 CURRENT APPLICATION DATA:
66 APPLICATION NUMBER: US/08/117,083
67 FILING DATE: 10-SEP-1993
68 CLASSIFICATION: 435
69 ATTORNEY/AGENT INFORMATION:
70 NAME: Dreger, Walter H.
71 REGISTRATION NUMBER: 24,190

```

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: REFERENCE/DOCKET NUMBER: A-56783
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 415-781-1989
: TELEFAX: 415-398-3249
: TELEX: 910 277299
: INFORMATION FOR SEQ ID NO: 14:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 271 amino acids
: TYPE: amino acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: FEATURE:
: NAME/KEY: Protein
: LOCATION: 1..271
: OTHER INFORMATION: /note="Xaa refers to stop codon in
: OTHER INFORMATION: the open reading frame."
US-08-117-083-14

Query Match      68.8%; Score 33; DB 1; Length 271;
Best Local Similarity 66.7%; Pred. No. 1.7e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 FAFRDLCTV 9
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Db      48 FAFRDLFVV 56

RESULT 49
US-09-485-885-21
: Sequence 21, Application US/09485885
: Patent No. 6342224
: GENERAL INFORMATION:
: APPLICANT: Bruck, Claudine
: APPLICANT: Cabezon Silva, Teresa
: APPLICANT: Delisse, Anne-Marie Eva Fernande
: APPLICANT: Gerard, Catherine Marie Ghislaine
: APPLICANT: Lombardo-Bencheikh, Angela
: TITLE OF INVENTION: Vaccine
: FILE REFERENCE: B45107
: CURRENT APPLICATION NUMBER: US/09/485,885
: CURRENT FILING DATE: 2000-02-18
: PRIOR APPLICATION NUMBER: PCT/EP98/05285
: PRIOR FILING DATE: 1998-08-17
: PRIOR APPLICATION NUMBER: GB 9717953.5
: PRIOR FILING DATE: 1997-08-22
: NUMBER OF SEQ ID NOS: 23
: SOFTWARE: FastSeq for Windows Version 3.0
: SEQ ID NO 21
: LENGTH: 278
: TYPE: PRT
: ORGANISM: Homo sapien
US-09-485-885-21

Query Match      68.8%; Score 33; DB 2; Length 278;
Best Local Similarity 66.7%; Pred. No. 1.7e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 FAFRDLCTV 9
      |||:|:|
Db      158 FAFRDLFVV 166

RESULT 50
US-09-491-577-96
: Sequence 96, Application US/09491577
: Patent No. 6610511
: GENERAL INFORMATION:
: APPLICANT: Yale University
: APPLICANT: Carlson, John R.
: APPLICANT: Kim, Hunhyong
: APPLICANT: Clyne, Peter J.
: APPLICANT: Warr, Coral G.

```

/ TITLE OF INVENTION: No. 6610511e1 Family of Odorant Receptor Genes in Drosophila
/ FILE REFERENCE: 44574-5061-US
/ CURRENT APPLICATION NUMBER: US/09/491,577
/ CURRENT FILING DATE: 2000-01-25
/ EARLIER APPLICATION NUMBER: US 60/117,132
/ EARLIER FILING DATE: 1999-01-25
/ NUMBER OF SEQ ID NOS: 112
/ SOFTWARE: Patentin Ver. 2.1
/ SEQ ID NO 96
/ LENGTH: 349
/ TYPE: PRT
/ ORGANISM: Drosophila melanogaster
US-09-491-577-96

Query Match 68.8%; Score 33; DB 2; Length 349;
Best Local Similarity 57.1%; Pred. No. 2.2e+02;
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 3 FRDLCTV 9
: ||||: :
Db 301 YRDLCVI 307

Search completed: May 5, 2006, 05:36:23
Job time : 24.7 secs

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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:29:07 ; Search time 56 Seconds
(without alignments)
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Title: US-08-170-344-10
Perfect score: 48
Sequence: 1 PAFRDLCTV 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database : Published Applications_AA_Main:*
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2: /cgn2_6/prodata/1/pubppaa/US08_PUBCOMB.pep:*
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4: /cgn2_6/prodata/1/pubppaa/US10_PUBCOMB.pep:*
5: /cgn2_6/prodata/1/pubppaa/US10_PUBCOMB.pep:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	48	100.0	9	3	US-09-909-460-103
2	48	100.0	9	3	US-09-872-836-103
3	48	100.0	9	4	US-10-128-711-67
4	48	100.0	9	4	US-10-133-210-281
5	48	100.0	9	5	US-10-758-970-103
6	48	100.0	9	5	US-10-751-845-57
7	48	100.0	15	4	US-10-476-570-29
8	48	100.0	22	5	US-10-858-384-6
9	48	100.0	24	5	US-10-751-845-65
10	48	100.0	117	5	US-10-751-845-126
11	48	100.0	151	5	US-10-177-390-6
12	48	100.0	151	5	US-10-484-063-20
13	48	100.0	151	5	US-10-484-063-27
14	48	100.0	158	5	US-10-858-384-2
15	48	100.0	158	5	US-10-367-057-16
16	48	100.0	158	6	US-11-021-949-13
17	48	100.0	171	4	US-10-472-724-2
18	48	100.0	236	5	US-10-751-845-157
19	48	100.0	237	5	US-10-751-845-158
20	48	100.0	243	6	US-11-072-288-1
21	48	100.0	261	5	US-10-751-845-160
22	48	100.0	266	3	US-09-367-309A-1
23	48	100.0	273	5	US-10-000-903-4
24	48	100.0	273	5	US-10-899-771-4
25	48	100.0	292	4	US-10-000-903-10
26	48	100.0	292	5	US-10-899-771-10
27	48	100.0	371	4	US-10-000-903-6

28	48	100.0	371	5	US-10-899-771-6	Sequence 6, Appli
29	48	100.0	390	4	US-10-000-903-14	Sequence 14, Appl
30	48	100.0	390	5	US-10-899-771-14	Sequence 14, Appl
31	48	100.0	536	4	US-10-367-095-10	Sequence 10, Appl
32	48	100.0	536	4	US-10-368-046-10	Sequence 10, Appl
33	48	100.0	536	4	US-10-367-367-10	Sequence 10, Appl
34	48	100.0	536	5	US-10-918-337-10	Sequence 10, Appl
35	45	93.8	158	6	US-11-021-949-29	Sequence 29, Appl
36	44	91.7	9	5	US-10-751-845-89	Sequence 89, Appl
37	42	87.5	148	6	US-11-021-949-19	Sequence 19, Appl
38	42	87.5	148	6	US-11-021-949-359	Sequence 359, App
39	40	83.3	10	5	US-10-484-063-5	Sequence 5, Appli
40	40	83.3	10	5	US-10-751-845-94	Sequence 94, Appl
41	37	77.1	161	5	US-10-472-533-388	Sequence 388, App
42	37	77.1	161	4	US-10-351-334-160	Sequence 160, App
43	37	77.1	205	4	US-10-264-237-2326	Sequence 320, App
44	37	77.1	207	4	US-10-351-334-320	Sequence 251824, i
45	37	77.1	242	4	US-10-425-115-251824	Sequence 8, Appli
46	37	77.1	445	5	US-10-839-882-8	Sequence 40696, A
47	37	77.1	459	5	US-10-450-763-40696	Sequence 6, Appli
48	37	77.1	471	5	US-10-896-169-6	Sequence 179845
49	37	77.1	473	4	US-10-437-963-179845	Sequence 7, Appli
50	37	77.1	492	3	US-09-978-295A-7	Sequence 7, Appli
51	37	77.1	492	3	US-09-978-697-7	Sequence 7, Appli
52	37	77.1	492	3	US-09-978-192A-7	Sequence 7, Appli
53	37	77.1	492	3	US-09-999-832A-7	Sequence 7, Appli
54	37	77.1	492	3	US-09-978-189-7	Sequence 7, Appli
55	37	77.1	492	3	US-09-978-608A-7	Sequence 7, Appli
56	37	77.1	492	3	US-09-978-585A-7	Sequence 7, Appli
57	37	77.1	492	3	US-09-978-191A-7	Sequence 7, Appli
58	37	77.1	492	3	US-09-978-403A-7	Sequence 7, Appli
59	37	77.1	492	3	US-09-978-564A-7	Sequence 7, Appli
60	37	77.1	492	3	US-09-999-833A-7	Sequence 7, Appli
61	37	77.1	492	3	US-09-981-91A-7	Sequence 7, Appli
62	37	77.1	492	3	US-09-978-824-7	Sequence 7, Appli
63	37	77.1	492	3	US-09-918-583A-7	Sequence 7, Appli
64	37	77.1	492	3	US-09-999-834A-7	Sequence 7, Appli
65	37	77.1	492	3	US-09-978-423A-7	Sequence 7, Appli
66	37	77.1	492	3	US-09-978-193A-7	Sequence 7, Appli
67	37	77.1	492	3	US-09-899-830A-7	Sequence 7, Appli
68	37	77.1	492	3	US-09-978-188A-7	Sequence 7, Appli
69	37	77.1	492	3	US-09-978-188A-7	Sequence 7, Appli
70	37	77.1	492	3	US-09-978-188A-7	Sequence 7, Appli
71	37	77.1	492	3	US-09-978-188A-7	Sequence 7, Appli
72	37	77.1	492	3	US-09-978-188A-7	Sequence 7, Appli
73	37	77.1	492	3	US-09-978-188A-7	Sequence 7, Appli
74	37	77.1	492	3	US-09-978-188A-7	Sequence 7, Appli
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82	37	77.1	492	3	US-09-978-188A-7	Sequence 7, Appli
83	37	77.1	492	3	US-09-978-188A-7	Sequence 7, Appli
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98	37	77.1	492	3	US-09-978-188A-7	Sequence 7, Appli
99	37	77.1	492	3	US-09-978-188A-7	Sequence 7, Appli
100	37	77.1	492	3	US-09-978-188A-7	Sequence 7, Appli

101	37	77.1	492	4	US-10-145-017A-7	Sequence 7, Appl1	174	34	70.8	179	5	US-10-732-923-5146	Sequence 6146, Ap
102	37	77.1	492	4	US-10-164-728A-7	Sequence 7, Appl1	175	34	70.8	184	4	US-10-767-701-45523	Sequence 45523, A
103	37	77.1	492	4	US-10-013-926A-7	Sequence 7, Appl1	176	34	70.8	216	4	US-10-767-701-56568	Sequence 56568, A
104	37	77.1	492	4	US-10-165-247A-7	Sequence 7, Appl1	177	34	70.8	238	4	US-10-424-599-402518	Sequence 202518, A
105	37	77.1	492	4	US-10-145-124A-7	Sequence 7, Appl1	178	34	70.8	254	4	US-10-425-114-66907	Sequence 66907, A
106	37	77.1	492	4	US-10-160-502A-7	Sequence 7, Appl1	179	34	70.8	263	3	US-09-347-064-10	Sequence 10, Appl1
107	37	77.1	492	4	US-10-145-087A-7	Sequence 7, Appl1	180	34	70.8	263	5	US-10-499-297-4	Sequence 4, Appl1
108	37	77.1	492	4	US-10-017-086A-7	Sequence 7, Appl1	181	34	70.8	263	6	US-11-042-707-6	Sequence 6, Appl1
109	37	77.1	492	4	US-10-164-829A-7	Sequence 7, Appl1	182	34	70.8	264	6	US-11-042-707-3	Sequence 3, Appl1
110	37	77.1	492	4	US-10-164-929A-7	Sequence 7, Appl1	183	34	70.8	264	6	US-11-042-707-7	Sequence 7, Appl1
111	37	77.1	492	4	US-10-013-922A-7	Sequence 7, Appl1	184	34	70.8	264	6	US-11-042-707-8	Sequence 8, Appl1
112	37	77.1	492	4	US-10-020-445A-7	Sequence 7, Appl1	185	34	70.8	264	6	US-11-042-707-9	Sequence 9, Appl1
113	37	77.1	492	4	US-10-013-924A-7	Sequence 7, Appl1	186	34	70.8	264	6	US-11-042-707-10	Sequence 10, Appl1
114	37	77.1	492	4	US-10-017-084A-7	Sequence 7, Appl1	187	34	70.8	264	6	US-11-042-707-11	Sequence 11, Appl1
115	37	77.1	492	4	US-10-145-016A-7	Sequence 7, Appl1	188	34	70.8	267	3	US-09-347-064-4	Sequence 4, Appl1
116	37	77.1	492	4	US-10-145-088A-7	Sequence 7, Appl1	189	34	70.8	298	4	US-10-425-115-33981	Sequence 23981, A
117	37	77.1	492	4	US-10-145-092A-7	Sequence 7, Appl1	190	34	70.8	393	5	US-10-739-920-7212	Sequence 7212, Ap
118	37	77.1	492	4	US-10-145-129A-7	Sequence 7, Appl1	191	34	70.8	476	4	US-10-425-114-36803	Sequence 36803, A
119	37	77.1	492	4	US-10-165-038A-7	Sequence 7, Appl1	192	34	70.8	482	4	US-10-425-114-65115	Sequence 65115, A
120	37	77.1	492	4	US-10-165-353A-7	Sequence 7, Appl1	193	34	70.8	497	4	US-10-425-114-65121	Sequence 65121, A
121	37	77.1	492	4	US-10-167-600-7	Sequence 7, Appl1	194	34	70.8	531	6	US-11-042-707-4	Sequence 4, Appl1
122	37	77.1	492	4	US-10-170-481A-7	Sequence 7, Appl1	195	34	70.8	533	6	US-11-042-707-1	Sequence 1, Appl1
123	37	77.1	492	4	US-10-172-039A-7	Sequence 7, Appl1	196	34	70.8	534	6	US-11-042-707-10	Sequence 10, Appl1
124	37	77.1	492	4	US-10-210-028-7	Sequence 7, Appl1	197	34	70.8	543	4	US-10-425-115-336705	Sequence 336705, A
125	37	77.1	492	4	US-10-017-085A-7	Sequence 7, Appl1	198	34	70.8	552	4	US-10-425-115-335827	Sequence 335827, A
126	37	77.1	492	4	US-10-013-916A-7	Sequence 7, Appl1	199	34	70.8	647	5	US-10-499-297-6	Sequence 6, Appl1
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130	37	77.1	492	4	US-10-211-858-16	Sequence 16, Appl1	203	33	68.8	149	6	US-10-800-023-27	Sequence 27, Appl1
131	37	77.1	492	4	US-10-013-928A-7	Sequence 7, Appl1	204	33	68.8	158	5	US-10-800-023-27	Sequence 28, Appl1
132	37	77.1	492	4	US-10-162-522A-7	Sequence 7, Appl1	205	33	68.8	158	6	US-11-021-949-28	Sequence 6, Appl1
133	37	77.1	492	4	US-10-013-923A-7	Sequence 7, Appl1	206	33	68.8	172	4	US-10-472-729-6	Sequence 6, Appl1
134	37	77.1	492	4	US-10-013-925A-7	Sequence 7, Appl1	207	33	68.8	177	4	US-10-424-599-146874	Sequence 146874, A
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139	37	77.1	492	4	US-10-164-749A-7	Sequence 7, Appl1	212	33	68.8	278	5	US-10-899-771-21	Sequence 21, Appl1
140	37	77.1	492	4	US-10-013-917A-7	Sequence 7, Appl1	213	33	68.8	349	4	US-10-601-309-26	Sequence 96, Appl1
141	37	77.1	492	5	US-10-152-388B-7	Sequence 7, Appl1	214	33	68.8	383	4	US-10-000-903-23	Sequence 23, Appl1
142	37	77.1	492	5	US-10-169-596A-2	Sequence 2, Appl1	215	33	68.8	383	5	US-10-899-771-23	Sequence 23, Appl1
143	37	77.1	492	5	US-10-918-851-7	Sequence 7, Appl1	216	33	68.8	415	5	US-10-472-968-4440	Sequence 4440, Ap
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151	37	77.1	492	6	US-11-129-762-7	Sequence 7, Appl1	224	32	66.7	15	5	US-10-149-835C-231	Sequence 231, App
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248	32	66.7	458	3	US-09-862-767A-9	Sequence 9, Appl1	321	31	64.6	279	4	US-10-425-333803	Sequence 333803, Appl1
249	32	66.7	515	4	US-10-437-963-191393	Sequence 191393, Appl1	322	31	64.6	311	5	US-10-477-519-2	Sequence 2, Appl1
250	32	66.7	526	6	US-11-097-143-8034	Sequence 8034, Appl	323	31	64.6	313	4	US-10-306-762-69	Sequence 69, Appl1
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252	32	66.7	527	4	US-10-450-763-55320	Sequence 55320, A	325	31	64.6	314	5	US-11-097-143-24477	Sequence 24477, A
253	32	66.7	563	5	US-10-349-528-15	Sequence 15, Appl1	326	31	64.6	343	4	US-10-425-115-333825	Sequence 333825, Appl1
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259	32	66.7	633	3	US-10-382-248-10	Sequence 10, Appl1	332	31	64.6	445	6	US-11-097-143-26042	Sequence 26042, A
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264	32	66.7	685	4	US-10-921-772A-5	Sequence 5, Appl1	337	31	64.6	542	4	US-10-114-893-178	Sequence 178, Appl
265	32	66.7	687	3	US-09-965-536A-13	Sequence 13, Appl1	338	31	64.6	542	4	US-10-414-378-10	Sequence 10, Appl1
266	32	66.7	688	3	US-09-965-536A-12	Sequence 12, Appl1	339	31	64.6	542	4	US-10-450-186-50	Sequence 50, Appl1
267	32	66.7	692	3	US-09-877-804-6	Sequence 6, Appl1	340	31	64.6	542	5	US-10-501-282-4754	Sequence 4754, Appl
268	32	66.7	692	3	US-09-965-536A-11	Sequence 11, Appl1	341	31	64.6	646	5	US-10-501-282-4756	Sequence 4756, Appl
269	32	66.7	692	5	US-10-755-190-6	Sequence 6, Appl1	342	31	64.6	673	5	US-10-501-282-4758	Sequence 4758, Appl
270	32	66.7	693	3	US-09-965-536A-14	Sequence 14, Appl1	343	31	64.6	755	4	US-10-225-567A-651	Sequence 651, Appl
271	32	66.7	695	3	US-09-804-626-8	Sequence 8, Appl1	344	31	64.6	812	4	US-10-416-588-2	Sequence 2, Appl1
272	32	66.7	695	4	US-10-825-567A-122	Sequence 122, Appl	345	31	64.6	863	4	US-10-298-122-5	Sequence 5, Appl1
273	32	66.7	695	4	US-10-407-655-65	Sequence 65, Appl1	346	31	64.6	879	4	US-10-292-798-454	Sequence 454, Appl
274	32	66.7	695	4	US-10-349-838A-2	Sequence 2, Appl1	347	31	64.6	881	3	US-09-982-736-2	Sequence 2, Appl1
275	32	66.7	695	4	US-10-349-838A-22	Sequence 22, Appl1	348	31	64.6	881	4	US-10-311-671-14	Sequence 14, Appl1
276	32	66.7	695	4	US-10-349-838A-24	Sequence 24, Appl1	349	31	64.6	881	6	US-11-100-583-14	Sequence 14, Appl1
277	32	66.7	695	4	US-10-349-838A-26	Sequence 26, Appl1	350	31	64.6	884	6	US-10-041-615-32	Sequence 32, Appl1
278	32	66.7	695	4	US-10-349-838A-28	Sequence 28, Appl1	351	31	64.6	900	6	US-11-097-143-8856	Sequence 8856, Appl
279	32	66.7	695	4	US-10-349-838A-30	Sequence 30, Appl1	352	31	64.6	910	4	US-10-041-615-104	Sequence 104, Appl
280	32	66.7	695	4	US-10-349-838A-32	Sequence 32, Appl1	353	31	64.6	925	5	US-10-894-354-2	Sequence 2, Appl1
281	32	66.7	695	4	US-10-349-838A-34	Sequence 34, Appl1	354	31	64.6	926	3	US-09-816-685-2	Sequence 2, Appl1
282	32	66.7	695	4	US-10-449-528-26	Sequence 26, Appl1	355	31	64.6	926	4	US-10-436-715-20	Sequence 20, Appl1
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892	28	58.3	33	3	US-10-894-914A-162	Sequence 162, App	965	28	58.3	112	4	US-10-450-763-56326	Sequence 56326, A
893	28	58.3	33	3	US-10-894-914A-367	Sequence 367, App	966	28	58.3	113	4	US-10-424-599-202076	Sequence 202076,
894	28	58.3	34	5	US-10-894-914A-367	Sequence 367, App	967	28	58.3	113	5	US-10-450-763-38049	Sequence 38049, A
895	28	58.3	34	4	US-10-425-115-264241	Sequence 264241,	968	28	58.3	114	4	US-10-142-835-2	Sequence 2, Appl1
896	28	58.3	39	4	US-10-424-599-274765	Sequence 274765,	969	28	58.3	114	4	US-10-425-115-55969	Sequence 55969, A
897	28	58.3	39	4	US-10-424-599-229157	Sequence 229157,	970	28	58.3	114	6	US-11-061-925-2	Sequence 2, Appl1
898	28	58.3	42	4	US-10-424-599-229157	Sequence 229157,	971	28	58.3	114	6	US-11-061-925-2	Sequence 2, Appl1
899	28	58.3	44	4	US-10-425-115-270789	Sequence 270789,	972	28	58.3	115	4	US-10-425-115-274073	Sequence 274073,
900	28	58.3	46	4	US-10-424-599-192824	Sequence 192824,	973	28	58.3	115	4	US-10-425-115-274162	Sequence 274162,
901	28	58.3	47	4	US-10-425-115-284691	Sequence 284691,	974	28	58.3	115	4	US-10-425-115-284691	Sequence 284691,
902	28	58.3	47	4	US-10-424-599-253688	Sequence 253688,	975	28	58.3	116	4	US-10-437-963-123741	Sequence 123741,
903	28	58.3	47	4	US-10-799-747-175	Sequence 175, App	976	28	58.3	121	5	US-10-501-282-3632	Sequence 3632, Ap
			47	4	US-10-425-115-313127	Sequence 313127,							

977 28 58.3 122 4 US-10-108-260A-3868 Sequence 3868, Ap
978 28 58.3 126 4 US-10-424-599-149119 Sequence 149119,
979 28 58.3 128 4 US-10-424-599-240240 Sequence 240240,
980 28 58.3 128 4 US-10-425-115-190185 Sequence 190185,
981 28 58.3 131 4 US-10-424-599-158573 Sequence 158573,
982 28 58.3 131 4 US-10-424-599-213801 Sequence 213801,
983 28 58.3 132 4 US-10-424-599-205949 Sequence 205949,
984 28 58.3 135 4 US-10-425-115-253072 Sequence 253072,
985 28 58.3 137 4 US-10-424-599-226009 Sequence 226009,
986 28 58.3 137 4 US-10-437-963-201026 Sequence 201026,
987 28 58.3 139 4 US-10-425-115-275465 Sequence 275465,
988 28 58.3 140 4 US-10-425-115-279773 Sequence 279773,
989 28 58.3 145 4 US-10-425-115-223484 Sequence 223484,
990 28 58.3 147 4 US-10-424-599-240475 Sequence 240475,
991 28 58.3 149 4 US-10-424-599-214770 Sequence 214770,
992 28 58.3 153 4 US-10-335-977-8729 Sequence 8729, Ap
993 28 58.3 155 4 US-09-801-944B-255 Sequence 255, App
994 28 58.3 156 4 US-10-335-977-8730 Sequence 8730, Ap
995 28 58.3 161 3 US-09-925-301-909 Sequence 909, App
996 28 58.3 162 6 US-11-021-949-31 Sequence 31, Appl
997 28 58.3 164 4 US-10-767-701-60222 Sequence 60222, A
998 28 58.3 167 4 US-10-437-963-133454 Sequence 133454,
999 28 58.3 169 4 US-10-437-963-123864 Sequence 123864,
1000 28 58.3 169 4 US-10-425-115-306614 Sequence 306614,

ALIGNMENTS

RESULT 1
US-09-909-460-103
; Sequence 103, Application US/09909460
; Publication No. US20020182258A1
; GENERAL INFORMATION:
; APPLICANT: Luneford, Lynn B.
; APPLICANT: Putnam, David
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: MICROPARTICLES FOR DELIVERY OF NUCLEIC
; FILE REFERENCE: 08191/014001
; CURRENT APPLICATION NUMBER: US/09/909,460
; PRIOR FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US/09/321,346
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-05-27
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 103
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-09-909-460-103
Query Match 100.0%; Score 48; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFRDLCTV 9
Db 1 FAFRDLCTV 9

RESULT 2
US-09-872-836-103
; Sequence 103, Application US/09872836
; Publication No. US20040142475A1
; GENERAL INFORMATION:
; APPLICANT: Barmen, Shikha P.
; APPLICANT: McKeever, Uta
; APPLICANT: Hedley, Mary Lynne
; TITLE OF INVENTION: DELIVERY SYSTEMS FOR BIOACTIVE AGENTS
; FILE REFERENCE: 08191-018001
; CURRENT APPLICATION NUMBER: US/09/872,836
; CURRENT FILING DATE: 2001-06-01

; PRIOR APPLICATION NUMBER: US 60/208,830
; PRIOR FILING DATE: 2000-06-02
; NUMBER OF SEQ ID NOS: 120
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 103
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-872-836-103
Query Match 100.0%; Score 48; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFRDLCTV 9
Db 1 FAFRDLCTV 9

RESULT 3
US-10-128-711-67
; Sequence 67, Application US/10128711
; Publication No. US20030099634A1
; GENERAL INFORMATION:
; APPLICANT: VITIELLO, Maria A.
; CHESTNUT, Robert W.
; SETTE, Alessandro D.
; CELIS, Esbenan
; GRAY, Howard
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ELICITING
; CTL IMMUNITY
; NUMBER OF SEQUENCES: 153
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend Kourie and Crew
; STREET: Stewart Street Tower, One Market Plaza
; CITY: San Francisco
; STATE: California
; COUNTRY: US
; ZIP: 94105-1493
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/128,711
; FILING DATE: 22-Apr-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/197,484
; FILING DATE: 16-FEB-1994
; APPLICATION NUMBER: US 07/935,811
; FILING DATE: 26-AUG-1992
; APPLICATION NUMBER: US 07/874,491
; FILING DATE: 27-APR-1992
; APPLICATION NUMBER: US 07/827,682
; FILING DATE: 29-JAN-1992
; APPLICATION NUMBER: US 07/749,568
; FILING DATE: 26-AUG-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Parmelee, Steven W.
; REGISTRATION NUMBER: 31,990
; REFERENCE/DOCKET NUMBER: 14137-26-4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 467-9600
; TELEFAX: (206) 623-6793
; INFORMATION FOR SEQ ID NO: 67:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: peptide

SEQUENCE DESCRIPTION: SEQ ID NO: 67;
US-10-128-711-67

Query Match 100.0%; Score 48; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFRDLCIV 9
DB 1 FAFRDLCIV 9

RESULT 4
US-10-133-210-281
Sequence 281, Application US/10133210
Publication No. US20030103964A1

GENERAL INFORMATION:
APPLICANT: Delisei, Charles
APPLICANT: Berzofsky, Jay
APPLICANT: Gulakota, Kamalakar
APPLICANT: Vaccaro, Dennis
APPLICANT: Meng, Zhiping
APPLICANT: Zhang, Chao
TITLE OF INVENTION: METHODS FOR DESIGNING MOLECULAR CONJUGATES AND
FILE REFERENCE: BU-035AX
CURRENT APPLICATION NUMBER: US/10/133,210
CURRENT FILING DATE: 2002-04-26
NUMBER OF SEQ ID NOS: 281
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 281
LENGTH: 9
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-133-210-281

Query Match 100.0%; Score 48; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFRDLCIV 9
DB 1 FAFRDLCIV 9

RESULT 5
US-10-758-970-103
Sequence 103, Application US/10758970
Publication No. US20050037086A1
GENERAL INFORMATION:
APPLICANT: Hedley, Mary Lynne
APPLICANT: Hsu, Yung-Yueh
APPLICANT: Tyo, Michael
TITLE OF INVENTION: CONTINUOUS-FLOW METHOD FOR PREPARING MICROPARTICLES
FILE REFERENCE: 08191-012001
CURRENT APPLICATION NUMBER: US/10/758,970
CURRENT FILING DATE: 2004-01-16
PRIOR APPLICATION NUMBER: US/09/715,708A
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: US 60/166,516
PRIOR FILING DATE: 1999-11-19
NUMBER OF SEQ ID NOS: 109
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 103
LENGTH: 9
TYPE: PRT
ORGANISM: Human papilloma virus
US-10-758-970-103

Query Match 100.0%; Score 48; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFRDLCIV 9
DB 1 FAFRDLCIV 9

RESULT 6
US-10-751-845-57
Sequence 57, Application US/10751845
Publication No. US20050100928A1
GENERAL INFORMATION:
APPLICANT: Hedley, Mary Lynne
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
TITLE OF INVENTION: NOCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
FILE REFERENCE: 08191-013001
CURRENT APPLICATION NUMBER: US/10/751,845
CURRENT FILING DATE: 2004-01-05
PRIOR APPLICATION NUMBER: US/09/664,225
PRIOR FILING DATE: 2000-08-18
PRIOR APPLICATION NUMBER: US 60/169,846
PRIOR FILING DATE: 1999-12-09
PRIOR APPLICATION NUMBER: US 60/154,665
PRIOR FILING DATE: 1999-09-16
NUMBER OF SEQ ID NOS: 163
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 57
LENGTH: 9
TYPE: PRT
ORGANISM: Human Papilloma virus
US-10-751-845-57

Query Match 100.0%; Score 48; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFRDLCIV 9
DB 1 FAFRDLCIV 9

RESULT 7
US-10-476-570-29
Sequence 29, Application US/10476570
Publication No. US20040170644A1
GENERAL INFORMATION:
APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
APPLICANT: MAILLIERE, Bernard
APPLICANT: BOURGAULT-VILLADA, Isabelle
APPLICANT: POUVELLE-MORATILLE, Sandra
APPLICANT: GUILLET, Jean-Gerard
TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
FILE REFERENCE: 45636-5071-US
CURRENT APPLICATION NUMBER: US/10/476,570
CURRENT FILING DATE: 2003-11-04
PRIOR APPLICATION NUMBER: PCT/FR02/01533
PRIOR FILING DATE: 2002-05-03
PRIOR APPLICATION NUMBER: FR 01 05980
PRIOR FILING DATE: 2001-05-04
NUMBER OF SEQ ID NOS: 63
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 29
LENGTH: 15
TYPE: PRT
ORGANISM: artificial sequence
FEATURE:
OTHER INFORMATION: Description of the artificial sequence: peptide E6 50-64
US-10-476-570-29

Query Match 100.0%; Score 48; DB 4; Length 15;

Best Local Similarity 100.0%; Pred. No. 0.052;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFRDLCTV 9
|||
Db 3 FAFRDLCTV 11

RESULT 8

US-10-858-384-6
; Sequence 6, Application US/10858384
; Publication No. US20050033255A1
; GENERAL INFORMATION:
; APPLICANT: CHOPEIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
; PRIOR FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 6
; LENGTH: 22
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of the Artificial Sequence: Peptide fragment
US-10-858-384-6

Query Match 100.0%; Score 48; DB 5; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.075;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFRDLCTV 9
|||
Db 7 FAFRDLCTV 15

RESULT 9

US-10-751-845-65
; Sequence 65, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; PRIOR FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 65
; LENGTH: 24
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-65

Query Match 100.0%; Score 48; DB 5; Length 24;

Best Local Similarity 100.0%; Pred. No. 0.082;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFRDLCTV 9
|||
Db 9 FAFRDLCTV 17

RESULT 10

US-10-751-845-126
; Sequence 126, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; PRIOR FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 126
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-126

Query Match 100.0%; Score 48; DB 5; Length 117;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFRDLCTV 9
|||
Db 29 FAFRDLCTV 37

RESULT 11

US-10-177-390-6
; Sequence 6, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
; APPLICANT: Schuler, Gerold
; APPLICANT: N.V. Antwerp Innovatiecentrum
; TITLE OF INVENTION: Improved transfection of Eucaryotic Cells with linear
; FILE REFERENCE: 021505wo/JH/ml
; CURRENT APPLICATION NUMBER: US/10/177,390
; PRIOR FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-177-390-6

Query Match 100.0%; Score 48; DB 4; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.51;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFRDLCTV 9
|||
Db 45 FAFRDLCTV 53

```
RESULT 12
US-10-484-063-20
; Sequence 20, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILTERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; PRIOR FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-20
```

```
Query Match          100.0%; Score 48; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.51;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 FAFRDLCIV 9
Db 45 FAFRDLCIV 53
```

```
RESULT 13
US-10-484-063-27
; Sequence 27, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILTERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; PRIOR FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-484-063-27
```

```
Query Match          100.0%; Score 48; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.51;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY 1 FAFRDLCIV 9
Db 45 FAFRDLCIV 53
```

```
RESULT 14
US-10-858-384-2
; Sequence 2, Application US/10858384
; Publication No. US20050033025A1
```

```
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
; PRIOR FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 2
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-10-858-384-2
```

```
Query Match          100.0%; Score 48; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 FAFRDLCIV 9
Db 52 FAFRDLCIV 60
```

```
RESULT 15
US-10-367-057-16
; Sequence 16, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
; APPLICANT: Cuthill, Scott;
; APPLICANT: Jackson, Amanda;
; APPLICANT: Lewin, David A.;
; APPLICANT: Ooi, Chean Eng
; TITLE OF INVENTION: Complexes and Methods of Using Same
; FILE REFERENCE: 21402-559
; CURRENT APPLICATION NUMBER: US/10/367,057
; PRIOR FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: 60/256,911
; PRIOR FILING DATE: 2002-02-14
; NUMBER OF SEQ ID NOS: 198
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 16
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-367-057-16
```

```
Query Match          100.0%; Score 48; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 FAFRDLCIV 9
Db 52 FAFRDLCIV 60
```

```
RESULT 16
US-11-021-949-13
; Sequence 13, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
```

```

; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-13

Query Match          100.0%; Score 48; DB 6; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFRDLCTIV 9
   |||||
Db 52 FAFRDLCTIV 60

RESULT 17
US-10-472-724-2
; Sequence 2, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
; APPLICANT: Cld-Arregui, Angel
; APPLICANT: Zur Hansen, Harald
; TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US/10/472,724
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 171
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-472-724-2

Query Match          100.0%; Score 48; DB 4; Length 171;
Best Local Similarity 100.0%; Pred. No. 0.57;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFRDLCTIV 9
   |||||
Db 57 FAFRDLCTIV 65

RESULT 18
US-10-751-845-157
; Sequence 157, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
```

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; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 157
; LENGTH: 236
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-157

Query Match          100.0%; Score 48; DB 5; Length 236;
Best Local Similarity 100.0%; Pred. No. 0.79;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFRDLCTIV 9
   |||||
Db 29 FAFRDLCTIV 37

RESULT 19
US-10-751-845-158
; Sequence 158, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 158
; LENGTH: 237
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-158

Query Match          100.0%; Score 48; DB 5; Length 237;
Best Local Similarity 100.0%; Pred. No. 0.79;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFRDLCTIV 9
   |||||
Db 30 FAFRDLCTIV 38

RESULT 20
US-11-072-288-1
; Sequence 1, Application US/11072288
; Publication No. US20050159386A1
; GENERAL INFORMATION:
; APPLICANT: KIENY, Marie-Paule
; APPLICANT: BALLOU, Jean-Marc
; APPLICANT: BIZOUARNE, Nadine
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
; FILE REFERENCE: 017753-122
; CURRENT APPLICATION NUMBER: US/11/072,288
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US/09/462,993
```


;; PRIOR FILING DATE: 2000-04-17
;; PRIOR APPLICATION NUMBER: PCT/FR98/01576
;; PRIOR FILING DATE: 1998-07-17
;; PRIOR APPLICATION NUMBER: FR 97/09152
;; PRIOR FILING DATE: 1997-07-18
;; NUMBER OF SEQ ID NOS: 23
;; SOFTWARE: PatentIn Ver. 2.2
;; SEQ ID NO 1
;; LENGTH: 243
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence:Derived from
;; OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
;; OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-11-072-288-1

Query Match 100.0%; Score 48; DB 6; Length 243;
Best Local Similarity 100.0%; Pred. No. 0.81;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFRDLCTV 9
Db 80 FAFRDLCTV 88

RESULT 21
US-10-751-845-160
; Sequence 160, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chic, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; PRIOR FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 160
; LENGTH: 261
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-160

Query Match 100.0%; Score 48; DB 5; Length 261;
Best Local Similarity 100.0%; Pred. No. 0.87;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFRDLCTV 9
Db 54 FAFRDLCTV 62

RESULT 22
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Publication No. US20020081329A1
; GENERAL INFORMATION:
; APPLICANT: MACPARIAN, RODERICK I.
; APPLICANT: WALLIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A

;; CURRENT FILING DATE: 1999-08-11
;; PRIOR APPLICATION NUMBER: PCT/AU98/00080
;; PRIOR FILING DATE: 1998-02-13
;; PRIOR APPLICATION NUMBER: AU PO 5178
;; PRIOR FILING DATE: 1997-02-19
;; NUMBER OF SEQ ID NOS: 6
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 1
;; LENGTH: 266
;; TYPE: PRT
;; ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 48; DB 3; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.89;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFRDLCTV 9
Db 52 FAFRDLCTV 60

RESULT 23
US-10-000-903-4
; Sequence 4, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; PRIOR FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-4

Query Match 100.0%; Score 48; DB 4; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.91;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFRDLCTV 9
Db 158 FAFRDLCTV 166

RESULT 24
US-10-899-771-4
; Sequence 4, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.T.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; PRIOR FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18

; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeraic protein (protein D from Haemophilus
; OTHER INFORMATION: Influenzae B and E6 from Human papilloma virus type
; OTHER INFORMATION: 16)
US-10-899-771-4

Query Match 100.0%; Score 48; DB 5; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.91;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFRDLCTV 9
Db 158 FAFRDLCTV 166

RESULT 25
US-10-000-903-10
; Sequence 10, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabazon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fermande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-10

Query Match 100.0%; Score 48; DB 4; Length 292;
Best Local Similarity 100.0%; Pred. No. 0.97;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFRDLCTV 9
Db 177 FAFRDLCTV 185

RESULT 26
US-10-899-771-10
; Sequence 10, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563

; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeraic protein (Clyta from Streptococcus
; OTHER INFORMATION: pneumoniae and E6 from Human papilloma virus type
; OTHER INFORMATION: 16)
US-10-899-771-10

Query Match 100.0%; Score 48; DB 5; Length 292;
Best Local Similarity 100.0%; Pred. No. 0.97;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFRDLCTV 9
Db 177 FAFRDLCTV 185

RESULT 27
US-10-000-903-6
; Sequence 6, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabazon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fermande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-6

Query Match 100.0%; Score 48; DB 4; Length 371;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFRDLCTV 9
Db 158 FAFRDLCTV 166

RESULT 28
US-10-899-771-6
; Sequence 6, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20

PRIOR APPLICATION NUMBER: PCT/EP98/08563
PRIOR FILING DATE: 1998-12-18
PRIOR APPLICATION NUMBER: GB 9727262.9
PRIOR FILING DATE: 1997-12-24
NUMBER OF SEQ ID NOS: 28
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 6
LENGTH: 371
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
OTHER INFORMATION: influenzae B and B6E7 fusion from Human papilloma
OTHER INFORMATION: virus type 16)
US-10-899-771-6

Query Match 100.0%; Score 48; DB 5; Length 371;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFRDLCIV 9
Db 158 FAFRDLCIV 166

RESULT 29
US-10-000-903-14
Sequence 14, Application US/10000903
Publication No. US2002018221A1
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabezon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Bernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Benchetikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/10/000,903
CURRENT FILING DATE: 2001-10-01
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 14
LENGTH: 390
TYPE: PRT
ORGANISM: Homo sapien
US-10-000-903-14

Query Match 100.0%; Score 48; DB 4; Length 390;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFRDLCIV 9
Db 177 FAFRDLCIV 185

RESULT 30
US-10-899-771-14
Sequence 14, Application US/10899771
Publication No. US20050031638A1
GENERAL INFORMATION:
APPLICANT: Dalemans, Wilfried L.J.
APPLICANT: Gerard, Catherine Marie Ghislaine
TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
FILE REFERENCE: B45124
CURRENT APPLICATION NUMBER: US/10/899,771
CURRENT FILING DATE: 2004-07-27
PRIOR APPLICATION NUMBER: US/09/581,976

PRIOR FILING DATE: 2000-06-20
PRIOR APPLICATION NUMBER: PCT/EP98/08563
PRIOR FILING DATE: 1998-12-18
PRIOR APPLICATION NUMBER: GB 9727262.9
PRIOR FILING DATE: 1997-12-24
NUMBER OF SEQ ID NOS: 28
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 14
LENGTH: 390
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Chimeric protein (Clyta from Streptococcus
OTHER INFORMATION: pneumoniae and B6E7 fusion from Human papilloma
OTHER INFORMATION: virus type 16)
US-10-899-771-14

Query Match 100.0%; Score 48; DB 5; Length 390;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFRDLCIV 9
Db 177 FAFRDLCIV 185

RESULT 31
US-10-367-095-10
Sequence 10, Application US/10367095
Publication No. US20030228696A1
GENERAL INFORMATION:
APPLICANT: Robin A. Robinson
TITLE OF INVENTION: No. US20030228696A1 Insect Cell Line
FILE REFERENCE: 44149-1US1
CURRENT APPLICATION NUMBER: US/10/367,095
CURRENT FILING DATE: 2003-02-14
PRIOR APPLICATION NUMBER: US 60/356,119
PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,161
PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,118
PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,133
PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,157
PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,156
PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,123
PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,113
PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,154
PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,135
PRIOR FILING DATE: 2002-02-14
Remaining prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 13
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 10
LENGTH: 536
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: HPV-16 L2/E6 fusion protein
US-10-367-095-10

Query Match 100.0%; Score 48; DB 4; Length 536;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFRDLCIV 9
Db 177 FAFRDLCIV 185

RESULT 35

US-11-021-949-29
 ; Sequence 29, Application US/11021949
 ; Publication No. US20050142541A1
 ; GENERAL INFORMATION:
 ; APPLICANT: LU, PETER
 ; APPLICANT: GARMAN, JONATHAN DAVID
 ; APPLICANT: BELMARES, MICHAEL P.
 ; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
 ; APPLICANT: SCHWEIZER, JOHANNES
 ; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
 ; FILE REFERENCE: VITA-012
 ; CURRENT APPLICATION NUMBER: US/11/021,949
 ; PRIOR FILING DATE: 2004-12-23
 ; PRIOR FILING DATE: 2003-12-23
 ; NUMBER OF SEQ ID NOS: 361
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 29
 ; LENGTH: 158
 ; TYPE: PRT
 ; ORGANISM: human papilloma virus (HPV)
 US-11-021-949-29

Query Match 93.8%; Score 45; DB 6; Length 158;
 Best Local Similarity 88.9%; Pred. No. 1.9;
 Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFRDLCTV 9
 |||:||||
 Db 47 FAFRDLCTV 55

RESULT 36

US-10-751-845-89
 ; Sequence 89, Application US/10751845
 ; Publication No. US20050100928A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Hedley, Mary Lynne
 ; APPLICANT: Urban, Robert G.
 ; APPLICANT: Chiciz, Roman M.
 ; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
 ; FILE REFERENCE: 08191-013001
 ; CURRENT APPLICATION NUMBER: US/10/751,845
 ; CURRENT FILING DATE: 2004-01-05
 ; PRIOR APPLICATION NUMBER: US/09/664,225
 ; PRIOR FILING DATE: 2000-08-18
 ; PRIOR APPLICATION NUMBER: US 60/169,846
 ; PRIOR FILING DATE: 1999-12-09
 ; PRIOR FILING DATE: 1999-09-16
 ; NUMBER OF SEQ ID NOS: 163
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 89
 ; LENGTH: 9
 ; TYPE: PRT
 ; ORGANISM: Human Papilloma virus
 US-10-751-845-89

Query Match 91.7%; Score 44; DB 5; Length 9;
 Best Local Similarity 100.0%; Pred. No. 1.7e+06;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFRDLCTV 8
 |||:||||
 Db 2 FAFRDLCTV 9

RESULT 37
 US-11-021-949-19

; Sequence 19, Application US/11021949
 ; Publication No. US20050142541A1
 ; GENERAL INFORMATION:
 ; APPLICANT: LU, PETER
 ; APPLICANT: GARMAN, JONATHAN DAVID
 ; APPLICANT: BELMARES, MICHAEL P.
 ; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
 ; APPLICANT: SCHWEIZER, JOHANNES
 ; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
 ; FILE REFERENCE: VITA-012
 ; CURRENT APPLICATION NUMBER: US/11/021,949
 ; PRIOR FILING DATE: 2004-12-23
 ; PRIOR FILING DATE: 2003-12-23
 ; NUMBER OF SEQ ID NOS: 361
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 19
 ; LENGTH: 148
 ; TYPE: PRT
 ; ORGANISM: human papilloma virus (HPV)
 US-11-021-949-19

Query Match 87.5%; Score 42; DB 6; Length 148;
 Best Local Similarity 88.9%; Pred. No. 6.4;
 Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFRDLCTV 9
 |||:||||
 Db 46 FAFRDLCTV 54

RESULT 38

US-11-021-949-359
 ; Sequence 359, Application US/11021949
 ; Publication No. US20050142541A1
 ; GENERAL INFORMATION:
 ; APPLICANT: LU, PETER
 ; APPLICANT: GARMAN, JONATHAN DAVID
 ; APPLICANT: BELMARES, MICHAEL P.
 ; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
 ; APPLICANT: SCHWEIZER, JOHANNES
 ; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
 ; FILE REFERENCE: VITA-012
 ; CURRENT APPLICATION NUMBER: US/11/021,949
 ; CURRENT FILING DATE: 2004-12-23
 ; PRIOR APPLICATION NUMBER: 60/532,373
 ; PRIOR FILING DATE: 2003-12-23
 ; NUMBER OF SEQ ID NOS: 361
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 359
 ; LENGTH: 148
 ; TYPE: PRT
 ; ORGANISM: human papilloma virus (HPV)
 US-11-021-949-359

Query Match 87.5%; Score 42; DB 6; Length 148;
 Best Local Similarity 77.8%; Pred. No. 6.4;
 Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFRDLCTV 9
 |||:||||
 Db 46 FAFRDLCTV 54

RESULT 39
 US-10-484-063-5
 ; Sequence 5, Application US/10484063
 ; Publication No. US20050048467A1
 ; GENERAL INFORMATION:
 ; APPLICANT: SASTRY, K. JAGANNADHA
 ; APPLICANT: TORTOLERO-LUNA, GUILLERMO

```

; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; PRIOR FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-5

Query Match      83.3%; Score 40; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 FAFRDLG 7
      |||||
Db      4 FAFRDLG 10

RESULT 40
US-10-751-845-94
; Sequence 94, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chiciz, Robert M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR FILING DATE: 1999-09-16
; PRIOR APPLICATION NUMBER: US 60/154,665
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 94
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-94

Query Match      83.3%; Score 40; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 FAFRDLG 7
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Db      4 FAFRDLG 10

RESULT 41
US-10-472-533-388
; Sequence 388, Application US/10472533
; Publication No. US20050197285A1
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Human Secreted Proteins
; FILE REFERENCE: PS906PCT
; CURRENT APPLICATION NUMBER: US/10/472,533
; CURRENT FILING DATE: 2003-09-20
; PRIOR APPLICATION NUMBER: US 60/331,287
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; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 60/306,171
; PRIOR FILING DATE: 2001-07-19
; PRIOR APPLICATION NUMBER: US 60/277,340
; PRIOR FILING DATE: 2001-03-21
; NUMBER OF SEQ ID NOS: 650
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 388
; LENGTH: 161
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-472-533-388

Query Match      77.1%; Score 37; DB 5; Length 161;
Best Local Similarity 66.7%; Pred. No. 58;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 FAFRDLG 9
      |||:|:|
Db      30 FAFALGCV 38

RESULT 42
US-10-351-334-160
; Sequence 160, Application US/10351334
; Publication No. US20040034196A1
; GENERAL INFORMATION:
; APPLICANT: Komatsoulis et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: P2031P2
; CURRENT APPLICATION NUMBER: US/10/351,334
; CURRENT FILING DATE: 2003-01-27
; PRIOR APPLICATION NUMBER: 60/350,898
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/489,847
; PRIOR FILING DATE: 2000-01-24
; PRIOR APPLICATION NUMBER: PCT/US99/17130
; PRIOR FILING DATE: 1999-07-29
; PRIOR APPLICATION NUMBER: 60/094,657
; PRIOR FILING DATE: 1998-07-30
; PRIOR APPLICATION NUMBER: 60/095,486
; PRIOR FILING DATE: 1998-08-05
; PRIOR APPLICATION NUMBER: 60/096,319
; PRIOR FILING DATE: 1998-08-12
; PRIOR APPLICATION NUMBER: 60/095,454
; PRIOR FILING DATE: 1998-08-06
; PRIOR APPLICATION NUMBER: 60/095,455
; PRIOR FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 160
; LENGTH: 162
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (162)
; OTHER INFORMATION: Xaa equals stop translation
US-10-351-334-160

Query Match      77.1%; Score 37; DB 4; Length 162;
Best Local Similarity 66.7%; Pred. No. 58;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 FAFRDLG 9
      |||:|:|
Db      30 FAFALGCV 38

RESULT 43
US-10-264-237-2326
; Sequence 2326, Application US/10264237
; Publication No. US20040009491A1
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/ GENERAL INFORMATION:
/ APPLICANT: Birse et al.
/ TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
/ FILE REFERENCE: PA131P1
/ CURRENT APPLICATION NUMBER: US/10/264,237
/ PRIOR FILING DATE: 2002-10-04
/ PRIOR APPLICATION NUMBER: PCT/US01/16450
/ PRIOR FILING DATE: 2001-05-18
/ PRIOR APPLICATION NUMBER: US 60/205,515
/ PRIOR FILING DATE: 2000-05-19
/ NUMBER OF SEQ ID NOS: 2876
/ SOFTWARE: PatentIn Ver. 3.1
/ SEQ ID NO 2326
/ LENGTH: 205
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ US-10-264-237-2326
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Query Match          77.1%; Score 37; DB 4; Length 205;
Best Local Similarity 66.7%; Pred. No. 74;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
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QY 1 FAFRDLCTV 9
    |||:|:|
Db 74 FAFABLCV 82
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RESULT 44
US-10-351-334-320
/ Sequence 320, Application US/10351334
/ Publication No. US20040034196A1
/ GENERAL INFORMATION:
/ APPLICANT: Komatsoulis et al
/ TITLE OF INVENTION: 98 Human Secreted Proteins
/ FILE REFERENCE: P2031P2
/ CURRENT APPLICATION NUMBER: US/10/351,334
/ PRIOR FILING DATE: 2003-01-27
/ PRIOR APPLICATION NUMBER: 60/350,898
/ PRIOR FILING DATE: 2002-01-25
/ PRIOR APPLICATION NUMBER: 09/489,847
/ PRIOR FILING DATE: 2000-01-24
/ PRIOR APPLICATION NUMBER: PCT/US99/17130
/ PRIOR FILING DATE: 1999-07-29
/ PRIOR APPLICATION NUMBER: 60/094,657
/ PRIOR FILING DATE: 1998-07-30
/ PRIOR APPLICATION NUMBER: 60/095,486
/ PRIOR FILING DATE: 1998-08-05
/ PRIOR APPLICATION NUMBER: 60/096,319
/ PRIOR FILING DATE: 1998-08-12
/ PRIOR APPLICATION NUMBER: 60/095,454
/ PRIOR FILING DATE: 1998-08-06
/ PRIOR APPLICATION NUMBER: 60/095,455
/ PRIOR FILING DATE: 1998-08-06
/ NUMBER OF SEQ ID NOS: 376
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 320
/ LENGTH: 207
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ US-10-351-334-320
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Query Match          77.1%; Score 37; DB 4; Length 207;
Best Local Similarity 66.7%; Pred. No. 74;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
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QY 1 FAFRDLCTV 9
    |||:|:|
Db 76 FAFABLCV 84
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RESULT 45
US-10-425-115-251824
/ Sequence 251824, Application US/10425115
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/ Publication No. US20040214272A1
/ GENERAL INFORMATION:
/ APPLICANT: La Rosa, Thomas J.
/ APPLICANT: Kovall, David K.
/ APPLICANT: Zhou, Yihua
/ APPLICANT: Cao, Yongwei
/ TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
/ FILE REFERENCE: 38-21(53222)B
/ CURRENT APPLICATION NUMBER: US/10/425,115
/ PRIOR FILING DATE: 2003-04-28
/ NUMBER OF SEQ ID NOS: 369326
/ SEQ ID NO 251824
/ LENGTH: 242
/ TYPE: PRT
/ ORGANISM: Zea mays
/ FEATURE:
/ OTHER INFORMATION: Clone ID: MRT4577_161248C.1.pcp
/ US-10-425-115-251824
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Query Match          77.1%; Score 37; DB 4; Length 242;
Best Local Similarity 66.7%; Pred. No. 87;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
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QY 1 FAFRDLCTV 9
    |||:|:|
Db 205 FAFRDLCTV 213
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RESULT 46
US-10-839-882-8
/ Sequence 8, Application US/10839882
/ Publication No. US20040203106A1
/ GENERAL INFORMATION:
/ APPLICANT: INCYTE PHARMACEUTICALS, INC.
/ APPLICANT: TANG, Y. Tom
/ APPLICANT: YUE, Henry
/ APPLICANT: HILLMAN, Jennifer L.
/ APPLICANT: GUEGLER, Karl J.
/ APPLICANT: CORLEY, Neil C.
/ APPLICANT: LAL, Preeti
/ APPLICANT: AZIMZAI, Valda
/ APPLICANT: BAUGHN, Mariah R.
/ APPLICANT: JUNKING, Yang
/ APPLICANT: SHIH, Leo L.
/ TITLE OF INVENTION: PROLIFERATION AND APOPTOSIS RELATED PROTEINS
/ FILE REFERENCE: PF-0619 PCT
/ CURRENT APPLICATION NUMBER: US/10/839,882
/ PRIOR FILING DATE: 2004-05-05
/ PRIOR APPLICATION NUMBER: US/09/807,452
/ PRIOR FILING DATE: 2001-04-11
/ PRIOR APPLICATION NUMBER: 09/175,737; unassigned; 60/118,559; 09/249,740; unassigned
/ 60/154,336
/ PRIOR FILING DATE: 1998-10-20; 1998-10-20; 1999-02-04; 1999-04-11; 1999-04-11;
/ 1999-04-22
/ NUMBER OF SEQ ID NOS: 44
/ SOFTWARE: PERL Program
/ SEQ ID NO 8
/ LENGTH: 445
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: misc.feature
/ OTHER INFORMATION: Incyte ID No: 3255641CD1
/ US-10-839-882-8
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Query Match          77.1%; Score 37; DB 4; Length 445;
Best Local Similarity 66.7%; Pred. No. 1,6e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
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QY 1 FAFRDLCTV 9
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Db 314 FAFABLCV 322
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RESULT 47
US-10-450-763-40696
; Sequence 40696, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
; APPLICANT: HySeq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; CURRENT FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 40696
; LENGTH: 459
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-450-763-40696

Query Match
Best Local Similarity 77.1%; Score 37; DB 5; Length 459;
Pred. No. 1.6e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFRDLCTV 9
DB 327 FAFRDLCTV 335

RESULT 48
US-10-896-169-6
; Sequence 6, Application US/10896169
; Publication No. US20050160498A1
; GENERAL INFORMATION:
; APPLICANT: CHUNG, Yong-Yoon et al.
; TITLE OF INVENTION: A GENE ENCODING CYSTEINE PROTEASE AND ITS PROMOTER WHICH ARE
; TITLE OF INVENTION: EXPRESSED SPECIFICALLY IN RICE ANTER, A METHOD FOR PRODUCING
; TITLE OF INVENTION: MALE STERILE RICE BY SUPPRESSING EXPRESSION OF THE GENE
; FILE REFERENCE: 3884-0122PUS1
; CURRENT APPLICATION NUMBER: US/10/896,169
; CURRENT FILING DATE: 2004-07-22
; PRIOR APPLICATION NUMBER: KR 2004-3156
; PRIOR FILING DATE: 2004-01-16
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 6
; LENGTH: 471
; TYPE: PRT
; ORGANISM: Oryza sativa
US-10-896-169-6

Query Match
Best Local Similarity 77.1%; Score 37; DB 5; Length 471;
Pred. No. 1.7e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFRDLCTV 9
DB 401 FAFRDLCTV 409

RESULT 49
US-10-437-963-179845
; Sequence 179845, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 179845
; LENGTH: 473
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(473)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_77268C.1.dep
US-10-437-963-179845

Query Match
Best Local Similarity 77.1%; Score 37; DB 4; Length 473;
Pred. No. 1.7e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFRDLCTV 9
DB 402 FAFRDLCTV 410

RESULT 50
US-09-978-295A-7
; Sequence 7, Application US/09978295A
; Patent No. US20020156006A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerltsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2630P1C11
; CURRENT APPLICATION NUMBER: US/09/978,295A
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
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; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60//085582
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60//085700
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60//085689
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60//085579
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60//085580
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60//085573
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60//085704
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60//085697

Query Match 77.1%; Score 37; DB 3; Length 492;
Best Local Similarity 66.7%; Pred. No. 1.8e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

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Db 361 FAFABLCIV 369

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Job time : 62 secs

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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:29:56 ; Search time 8.4 Seconds
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Title: US-08-170-344-10
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Sequence: 1 FAFRDLCTIV 9

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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

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Published Applications_AA_New:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	48	100.0	151	US-10-530-253-13	Sequence 13, Appl
2	48	100.0	158	US-11-206-138-3	Sequence 1, Appl
3	48	100.0	248	US-10-530-253-1	Sequence 3, Appl
4	48	100.0	248	US-10-530-253-3	Sequence 5, Appl
5	48	100.0	248	US-10-530-253-5	Sequence 3, Appl
6	48	100.0	248	US-10-530-253-7	Sequence 9, Appl
7	48	100.0	248	US-10-530-253-9	Sequence 11, Appl
8	48	100.0	248	US-10-530-253-11	Sequence 2, Appl
9	48	100.0	256	US-11-192-923A-2	Sequence 20, Appl
10	48	93.8	158	US-10-530-253-20	Sequence 780, App
11	44	91.7	11	US-10-530-061-780	Sequence 800, App
12	42	87.5	9	US-10-530-061-800	Sequence 500, App
13	42	87.5	10	US-10-530-061-500	Sequence 784, App
14	41	85.4	11	US-10-530-061-784	Sequence 26, Appl
15	41	85.4	158	US-10-530-061-784	Sequence 77, Appl
16	39	81.2	9	US-10-530-061-799	Sequence 799, App
17	39	81.2	9	US-10-530-061-821	Sequence 821, App
18	39	81.2	9	US-10-530-061-821	Sequence 566, App
19	39	81.2	10	US-10-530-061-566	Sequence 160, App
20	37	77.1	162	US-11-229-769-160	Sequence 320, App
21	37	77.1	207	US-11-229-769-320	Sequence 7, Appl

22	77.1	492	9	US-10-216-161A-7	Sequence 7, Appl
23	75.0	9	9	US-10-530-061-91	Sequence 91, Appl
24	75.0	9	9	US-10-530-061-820	Sequence 820, App
25	72.9	50	11	US-11-096-568A-8334	Sequence 8334, App
26	72.9	377	11	US-11-096-568A-32628	Sequence 32628, App
27	72.9	386	11	US-11-096-568A-32627	Sequence 32627, App
28	70.8	439	10	US-11-096-568A-15982	Sequence 499, App
29	70.8	439	11	US-11-096-568A-15982	Sequence 15982, App
30	70.8	462	11	US-11-096-568A-17183	Sequence 17183, App
31	70.8	470	11	US-11-096-568A-15981	Sequence 15981, App
32	70.8	470	11	US-11-096-568A-17182	Sequence 17182, App
33	70.8	505	11	US-11-096-568A-15980	Sequence 15980, App
34	70.8	505	11	US-11-096-568A-17181	Sequence 17181, App
35	68.8	10	9	US-10-530-061-519	Sequence 519, App
36	68.8	15	9	US-10-530-061-1660	Sequence 1660, App
37	68.8	15	9	US-10-530-061-1661	Sequence 1661, App
38	68.8	149	9	US-10-530-253-18	Sequence 18, Appl
39	68.8	158	9	US-10-530-253-15	Sequence 15, Appl
40	68.8	175	9	US-10-965-694-23	Sequence 23, Appl
41	68.8	214	11	US-11-098-686-10210	Sequence 10210, App
42	68.8	288	9	US-10-525-907-44	Sequence 44, Appl
43	68.8	295	11	US-11-188-298-20322	Sequence 20322, App
44	68.8	364	11	US-11-096-568A-24125	Sequence 24125, App
45	68.8	382	11	US-11-096-568A-24124	Sequence 24124, App
46	68.8	405	11	US-11-096-568A-24123	Sequence 24123, App
47	66.7	10	9	US-10-530-061-477	Sequence 477, App
48	66.7	10	9	US-10-530-061-565	Sequence 565, App
49	66.7	15	9	US-10-530-061-1668	Sequence 1668, App
50	66.7	15	9	US-10-530-061-1669	Sequence 1669, App
51	66.7	15	9	US-10-530-061-1670	Sequence 1670, App
52	66.7	15	11	US-11-106-415-137	Sequence 137, App
53	66.7	15	11	US-11-233-286-1337	Sequence 137, App
54	66.7	149	9	US-10-530-253-16	Sequence 16, Appl
55	66.7	160	9	US-10-490-824-25	Sequence 25, Appl
56	66.7	685	9	US-10-530-253-25	Sequence 25, Appl
57	66.7	695	11	US-11-152-601-22	Sequence 22, Appl
58	66.7	10	9	US-10-530-061-478	Sequence 478, App
59	64.6	15	9	US-10-530-061-1674	Sequence 1674, App
60	64.6	15	9	US-10-530-061-1675	Sequence 1675, App
61	64.6	15	9	US-10-530-061-1676	Sequence 1676, App
62	64.6	75	11	US-11-264-096-2015	Sequence 2015, App
63	64.6	101	11	US-11-096-568A-14205	Sequence 14205, App
64	64.6	135	11	US-11-096-568A-14203	Sequence 14203, App
65	64.6	149	9	US-10-530-253-17	Sequence 17, Appl
66	64.6	152	9	US-10-530-253-39	Sequence 39, Appl
67	64.6	176	9	US-10-965-694-27	Sequence 27, Appl
68	64.6	248	9	US-10-511-538-237	Sequence 237, App
69	64.6	332	11	US-11-096-568A-10014	Sequence 10014, App
70	64.6	374	11	US-11-096-568A-10013	Sequence 10013, App
71	64.6	393	11	US-11-012-522-14	Sequence 14, Appl
72	64.6	468	9	US-10-511-989-164	Sequence 164, App
73	64.6	474	11	US-11-188-298-9914	Sequence 9914, App
74	64.6	480	9	US-11-188-298-9914	Sequence 18711, App
75	64.6	480	9	US-10-915-002-299	Sequence 299, App
76	64.6	926	9	US-10-841-129-2	Sequence 2, Appl
77	64.6	1027	11	US-11-087-099-345	Sequence 345, App
78	64.6	1267	11	US-11-188-298-10438	Sequence 10438, App
79	64.6	1394	11	US-11-188-298-13354	Sequence 13354, App
80	64.6	2186	11	US-11-096-568A-28283	Sequence 28283, App
81	64.6	2199	11	US-11-096-568A-28282	Sequence 28282, App
82	64.6	2301	11	US-11-096-568A-28281	Sequence 28281, App
83	62.5	18	11	US-11-106-415-326	Sequence 326, App
84	62.5	18	11	US-11-233-265-346	Sequence 326, App
85	62.5	138	11	US-11-079-426-7197	Sequence 7197, App
86	62.5	158	9	US-10-530-253-19	Sequence 19, Appl
87	62.5	175	11	US-11-096-568A-15950	Sequence 15950, App
88	62.5	206	11	US-11-096-568A-15948	Sequence 15948, App
89	62.5	218	11	US-11-096-568A-15948	Sequence 15948, App
90	62.5	225	11	US-11-188-298-21619	Sequence 21619, App
91	62.5	314	11	US-11-096-568A-11261	Sequence 11261, App
92	62.5	314	11	US-11-096-568A-18991	Sequence 18991, App
93	62.5	338	11	US-11-096-568A-11260	Sequence 31260, App
94	62.5	354	11	US-11-188-298-7657	Sequence 7657, App

95	30	62.5	354	11	US-11-188-298-13074	Sequence 11074, A	168	28	58.3	131	11	US-11-087-099-493	Sequence 493, App
96	30	62.5	354	11	US-11-188-298-18759	Sequence 18759, A	169	28	58.3	139	11	US-11-188-298-6255	Sequence 6255, App
97	30	62.5	359	9	US-11-188-298-19833	Sequence 19833, A	170	28	58.3	166	11	US-11-087-099-12450	Sequence 12450, A
98	30	62.5	393	9	US-10-467-657-1038	Sequence 1038, Ap	171	28	58.3	166	11	US-11-172-740-218	Sequence 218, App
99	30	62.5	413	11	US-11-096-568A-11259	Sequence 31259, A	172	28	58.3	169	11	US-11-096-568A-10512	Sequence 10512, A
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101	30	62.5	475	11	US-11-188-298-955	Sequence 955, App	174	28	58.3	178	11	US-11-087-099-6882	Sequence 6882, App
102	30	62.5	475	11	US-11-188-298-17284	Sequence 17284, A	175	28	58.3	179	11	US-11-087-099-4692	Sequence 4692, App
103	30	62.5	492	11	US-11-079-463-9593	Sequence 9593, Ap	176	28	58.3	182	11	US-11-087-099-6738	Sequence 6738, Ap
104	30	62.5	1454	11	US-11-109-157A-2	Sequence 2, Appl1	177	28	58.3	188	11	US-11-087-099-1102	Sequence 1102, App
105	30	62.5	1686	11	US-11-109-157A-1	Sequence 1, Appl1	178	28	58.3	188	11	US-11-087-099-2702	Sequence 2702, App
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107	30	62.5	2911	11	US-11-090-617-706	Sequence 706, App	180	28	58.3	195	11	US-11-096-568A-10511	Sequence 10511, A
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113	29	60.4	223	9	US-10-784-004-343	Sequence 343, App	186	28	58.3	245	11	US-11-188-298-11863	Sequence 11863, A
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116	29	60.4	269	9	US-10-455-772-140	Sequence 140, App	189	28	58.3	283	11	US-11-096-568A-25183	Sequence 25183, A
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119	29	60.4	273	9	US-10-455-772-836	Sequence 836, App	192	28	58.3	292	11	US-11-188-298-2760	Sequence 2760, App
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121	29	60.4	273	9	US-10-455-772-840	Sequence 840, App	194	28	58.3	298	11	US-11-188-298-21003	Sequence 21003, A
122	29	60.4	298	11	US-11-087-099-7232	Sequence 7232, Ap	195	28	58.3	304	9	US-10-467-657-7616	Sequence 7616, Ap
123	29	60.4	313	9	US-10-455-772-848	Sequence 848, App	196	28	58.3	309	11	US-11-087-099-10759	Sequence 10759, A
124	29	60.4	313	9	US-10-455-772-854	Sequence 854, App	197	28	58.3	317	11	US-11-096-568A-20815	Sequence 20815, A
125	29	60.4	314	11	US-11-096-568A-21951	Sequence 21951, A	198	28	58.3	321	11	US-11-172-740-39	Sequence 39, Appl1
126	29	60.4	315	9	US-10-455-772-134	Sequence 134, App	199	28	58.3	324	11	US-11-096-568A-14707	Sequence 14707, A
127	29	60.4	315	9	US-10-455-772-138	Sequence 138, App	200	28	58.3	341	11	US-11-096-568A-16391	Sequence 16391, A
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129	29	60.4	315	9	US-10-455-772-834	Sequence 834, App	202	28	58.3	343	11	US-11-096-568A-17082	Sequence 7082, App
130	29	60.4	315	9	US-10-455-772-846	Sequence 846, App	203	28	58.3	355	11	US-11-096-568A-14705	Sequence 14705, A
131	29	60.4	320	9	US-10-455-772-842	Sequence 842, App	204	28	58.3	379	11	US-11-096-568A-7081	Sequence 7081, Ap
132	29	60.4	321	11	US-11-096-568A-21950	Sequence 21950, A	205	28	58.3	387	11	US-11-188-298-98419	Sequence 9819, Ap
133	29	60.4	347	11	US-11-096-568A-411	Sequence 411, App	206	28	58.3	387	11	US-11-188-298-9530	Sequence 9530, Ap
134	29	60.4	354	11	US-11-188-298-2415	Sequence 2415, Ap	207	28	58.3	389	11	US-11-188-298-1744	Sequence 1744, Ap
135	29	60.4	354	11	US-11-188-298-3950	Sequence 3950, Ap	208	28	58.3	389	11	US-11-188-298-110859	Sequence 11089, A
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137	29	60.4	354	11	US-11-188-298-12446	Sequence 12446, A	210	28	58.3	391	11	US-11-188-298-14304	Sequence 14304, A
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139	29	60.4	427	11	US-11-096-568A-409	Sequence 409, App	212	28	58.3	395	11	US-11-188-298-3615	Sequence 3615, Ap
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141	29	60.4	512	11	US-11-087-099-7490	Sequence 7490, A	214	28	58.3	396	11	US-11-188-298-5731	Sequence 5731, Ap
142	29	60.4	512	11	US-11-188-298-22498	Sequence 22498, A	215	28	58.3	397	11	US-11-188-298-20463	Sequence 20463, A
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144	29	60.4	555	11	US-11-096-568A-21949	Sequence 21949, A	217	28	58.3	434	11	US-11-188-298-10075	Sequence 10075, A
145	29	60.4	574	9	US-10-530-061-849	Sequence 488, App	218	28	58.3	435	11	US-11-087-099-6985	Sequence 6985, A
146	29	60.4	595	9	US-10-510-386-240	Sequence 240, App	219	28	58.3	435	11	US-11-188-298-17434	Sequence 17434, A
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148	29	60.4	722	9	US-10-793-626-1230	Sequence 1230, Ap	221	28	58.3	504	11	US-11-087-099-9816	Sequence 9816, App
149	29	60.4	731	11	US-11-045-004-2406	Sequence 2406, Ap	222	28	58.3	510	11	US-11-045-004-1629	Sequence 1629, Ap
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152	29	60.4	1027	11	US-11-079-463-8899	Sequence 8899, Ap	225	28	58.3	514	11	US-11-087-099-11500	Sequence 11500, A
153	29	60.4	1049	11	US-11-137-465-42	Sequence 42, Appl1	226	28	58.3	526	11	US-11-087-099-9483	Sequence 9483, App
154	29	60.4	2767	11	US-11-100-640-38	Sequence 38, Appl1	227	28	58.3	526	11	US-11-188-298-8800	Sequence 8800, Ap
155	29	60.4	2768	9	US-10-510-101-72	Sequence 72, Appl1	228	28	58.3	532	8	US-10-511-937-4495	Sequence 2495, Ap
156	28	58.3	10	9	US-10-530-061-791	Sequence 791, App	229	28	58.3	532	9	US-10-063-703-72	Sequence 72, Appl1
157	28	58.3	17	11	US-10-530-061-849	Sequence 849, App	230	28	58.3	532	9	US-10-199-447-264	Sequence 264, App
158	28	58.3	47	11	US-11-004-339-2251	Sequence 2251, Ap	231	28	58.3	532	9	US-10-199-883-264	Sequence 264, App
159	28	58.3	59	9	US-10-467-657-6690	Sequence 6690, Ap	232	28	58.3	532	9	US-10-195-888-264	Sequence 264, App
160	28	58.3	85	11	US-11-079-463-9875	Sequence 9875, Ap	233	28	58.3	532	9	US-10-195-889-264	Sequence 264, App
161	28	58.3	84	11	US-11-229-769-157	Sequence 157, App	234	28	58.3	532	11	US-11-102-440-72	Sequence 72, Appl1
162	28	58.3	85	9	US-10-467-657-6674	Sequence 6674, App	235	28	58.3	532	11	US-11-103-195-77	Sequence 72, Appl1
163	28	58.3	92	11	US-11-229-769-319	Sequence 319, App	236	28	58.3	561	11	US-11-090-617-562	Sequence 562, App
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165	28	58.3	100	11	US-11-096-568A-6932	Sequence 6932, Ap	238	28	58.3	646	11	US-11-079-463-9123	Sequence 9123, Ap
166	28	58.3	104	9	US-10-467-657-7314	Sequence 7314, Ap	239	28	58.3	668	11	US-11-113-424-12	Sequence 12, Appl1
167	28	58.3	120	11	US-11-188-298-3782	Sequence 3782, Ap	240	28	58.3	689	11	US-11-113-424-47	Sequence 47, Appl1

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244	28	58.3	689	11	US-11-040-218-31	Sequence 31, Appl	317	27	56.2	292	11	US-11-188-298-5275	Sequence 5275, Ap
245	28	58.3	689	11	US-11-040-218-33	Sequence 33, Appl	318	27	56.2	292	11	US-11-188-298-6397	Sequence 6397, Ap
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247	28	58.3	729	11	US-11-096-568A-27561	Sequence 27561, A	320	27	56.2	294	11	US-11-188-298-17088	Sequence 17088, A
248	28	58.3	801	9	US-10-508-307-8	Sequence 8, Appl	321	27	56.2	294	11	US-11-188-298-18623	Sequence 18623, A
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251	28	58.3	892	11	US-11-096-568A-27560	Sequence 27560, A	324	27	56.2	295	11	US-11-188-298-21022	Sequence 21022, A
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253	28	58.3	928	9	US-10-841-129-6	Sequence 6, Appl	326	27	56.2	296	9	US-10-525-907-32	Sequence 32, Appl
254	28	58.3	969	11	US-11-096-568A-30346	Sequence 30346, A	327	27	56.2	296	9	US-10-525-907-14	Sequence 34, Appl
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259	28	58.3	1659	9	US-11-072-175-205	Sequence 205, App	332	27	56.2	296	11	US-11-188-298-19927	Sequence 19927, A
260	28	58.3	1821	8	US-10-505-928-451	Sequence 451, App	333	27	56.2	296	11	US-11-188-298-15208	Sequence 15208, A
261	27.5	57.3	424	11	US-11-098-686-10445	Sequence 10445, A	334	27	56.2	298	11	US-11-188-298-6707	Sequence 6707, Ap
262	27	56.2	9	9	US-10-530-061-798	Sequence 798, App	335	27	56.2	297	11	US-11-188-298-18975	Sequence 18975, A
263	27	56.2	10	9	US-10-530-061-521	Sequence 521, App	336	27	56.2	298	9	US-10-525-907-26	Sequence 26, Appl
264	27	56.2	13	9	US-11-041-893-82	Sequence 82, Appl	337	27	56.2	298	11	US-11-188-298-2374	Sequence 2374, Ap
265	27	56.2	17	9	US-10-895-064-279	Sequence 279, App	338	27	56.2	299	11	US-11-096-568A-16660	Sequence 16660, A
266	27	56.2	17	11	US-11-129-741-279	Sequence 279, App	339	27	56.2	300	11	US-11-188-298-11842	Sequence 11842, A
267	27	56.2	18	11	US-11-106-415-352	Sequence 352, App	340	27	56.2	300	11	US-11-188-298-14965	Sequence 14965, A
268	27	56.2	18	11	US-11-233-256-352	Sequence 352, App	341	27	56.2	303	9	US-10-506-454-1102	Sequence 1102, Ap
269	27	56.2	20	11	US-11-106-415-47	Sequence 47, Appl	342	27	56.2	304	9	US-10-525-907-36	Sequence 36, Appl
270	27	56.2	20	11	US-11-233-256-47	Sequence 47, Appl	343	27	56.2	304	11	US-11-079-463-6327	Sequence 6327, Ap
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273	27	56.2	61	11	US-11-264-096-581	Sequence 581, App	346	27	56.2	310	11	US-11-096-568A-7222	Sequence 7222, Ap
274	27	56.2	61	11	US-11-264-096-582	Sequence 582, App	347	27	56.2	311	11	US-11-096-568A-12642	Sequence 12642, Ap
275	27	56.2	61	11	US-11-264-096-2230	Sequence 2230, Ap	348	27	56.2	311	11	US-11-188-298-18735	Sequence 18735, A
276	27	56.2	62	11	US-10-467-657-8943	Sequence 8943, Ap	349	27	56.2	311	11	US-11-188-298-18760	Sequence 18760, A
277	27	56.2	62	9	US-11-079-463-7492	Sequence 7492, Ap	350	27	56.2	313	11	US-11-087-029-8598	Sequence 8598, Ap
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279	27	56.2	69	11	US-11-126-468-22	Sequence 22, Appl	352	27	56.2	315	11	US-11-188-298-18939	Sequence 18939, A
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281	27	56.2	105	11	US-11-079-463-6813	Sequence 17479, A	354	27	56.2	322	11	US-11-116-881A-482	Sequence 482, App
282	27	56.2	110	11	US-11-086-298-17479	Sequence 24625, A	355	27	56.2	326	11	US-11-188-298-5706	Sequence 5706, Ap
283	27	56.2	116	11	US-11-096-568A-24625	Sequence 14749, A	356	27	56.2	326	11	US-11-188-298-5706	Sequence 136, App
284	27	56.2	141	9	US-10-982-145-72	Sequence 72, Appl	357	27	56.2	338	9	US-10-467-657-6798	Sequence 6798, Ap
285	27	56.2	141	9	US-10-982-145-73	Sequence 73, Appl	358	27	56.2	338	9	US-11-087-039-4169	Sequence 4169, Ap
286	27	56.2	161	9	US-10-965-694-12	Sequence 12, Appl	359	27	56.2	346	11	US-11-087-039-4169	Sequence 921, Ap
287	27	56.2	161	9	US-10-965-694-17	Sequence 10, Appl	360	27	56.2	353	11	US-11-096-568A-12641	Sequence 12641, A
288	27	56.2	161	11	US-11-239-325-10	Sequence 10, Appl	361	27	56.2	355	11	US-11-087-039-9921	Sequence 1695, Ap
289	27	56.2	162	11	US-11-087-039-4182	Sequence 1356, Ap	362	27	56.2	355	11	US-11-087-039-1695	Sequence 342, App
290	27	56.2	163	9	US-10-821-234-1356	Sequence 87, Appl	363	27	56.2	363	9	US-10-506-454-1315	Sequence 342, App
291	27	56.2	163	9	US-10-965-694-1	Sequence 190, App	364	27	56.2	364	9	US-10-131-826A-342	Sequence 342, App
292	27	56.2	163	11	US-11-240-769-87	Sequence 190, App	365	27	56.2	364	9	US-10-137-873A-342	Sequence 342, App
293	27	56.2	163	11	US-11-240-769-100	Sequence 190, App	366	27	56.2	364	9	US-10-152-370-342	Sequence 342, App
294	27	56.2	163	11	US-11-229-769-190	Sequence 6040, Ap	367	27	56.2	364	9	US-10-152-370-342	Sequence 342, App
295	27	56.2	172	11	US-11-087-099-6040	Sequence 3, Appl	368	27	56.2	364	11	US-11-091-334-2	Sequence 2, Appl
296	27	56.2	177	11	US-11-165-963-3	Sequence 3972, Ap	369	27	56.2	364	11	US-11-290-153-342	Sequence 342, Appl
297	27	56.2	181	11	US-11-087-099-3972	Sequence 337, App	370	27	56.2	368	11	US-11-096-568A-16642	Sequence 16642, A
298	27	56.2	181	11	US-11-229-769-337	Sequence 8421, Ap	371	27	56.2	372	11	US-11-087-039-1597	Sequence 283, App
299	27	56.2	186	11	US-11-079-463-8421	Sequence 3316, Ap	372	27	56.2	376	9	US-10-501-035-283	Sequence 16641, A
300	27	56.2	189	11	US-11-087-039-3316	Sequence 886, App	373	27	56.2	377	11	US-11-096-568A-16641	Sequence 316, App
301	27	56.2	218	9	US-10-506-454-886	Sequence 16861, A	374	27	56.2	381	9	US-10-454-437-316	Sequence 16460, A
302	27	56.2	226	11	US-11-165-963-1	Sequence 1, Appl	375	27	56.2	381	11	US-11-096-568A-4165	Sequence 4165, A
303	27	56.2	236	11	US-11-096-568A-16861	Sequence 244, App	376	27	56.2	383	11	US-11-096-568A-16640	Sequence 474, App
304	27	56.2	246	9	US-10-973-115B-244	Sequence 244, App	377	27	56.2	385	11	US-11-116-881A-474	Sequence 12140, A
305	27	56.2	246	9	US-10-973-115B-244	Sequence 244, App	378	27	56.2	387	11	US-11-087-039-12140	Sequence 3592, Ap
306	27	56.2	246	9	US-10-137-873A-244	Sequence 244, App	379	27	56.2	388	11	US-11-087-039-3592	Sequence 6659, Ap
307	27	56.2	246	9	US-10-152-370-244	Sequence 244, App	380	27	56.2	389	11	US-11-188-298-16559	Sequence 34164, A
308	27	56.2	246	11	US-11-290-153-244	Sequence 28636, A	381	27	56.2	389	11	US-11-096-568A-24164	Sequence 5982, Ap
309	27	56.2	250	11	US-11-096-568A-28636	Sequence 16908, A	382	27	56.2	396	11	US-11-087-039-5582	Sequence 21310, A
310	27	56.2	259	11	US-11-188-298-16087	Sequence 16908, A	383	27	56.2	407	11	US-11-188-298-21310	Sequence 12788, A
311	27	56.2	265	11	US-11-188-298-13057	Sequence 13057, A	384	27	56.2	408	11	US-11-096-568A-12788	Sequence 12506, A
312	27	56.2	268	11	US-11-087-039-1499	Sequence 14089, A	385	27	56.2	408	11	US-11-188-298-12506	Sequence 12506, A
313	27	56.2	275	11	US-11-188-298-14089	Sequence 14089, A	386	27	56.2	408	11	US-11-188-298-20936	Sequence 20936, A

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388	27	56.2	422	9	US-10-336-263A-4	Sequence 4, Appl1	461	27	56.2	879	11	US-11-188-298-10994	Sequence 10994, A
389	27	56.2	423	9	US-10-336-263A-12	Sequence 12, Appl	462	27	56.2	894	11	US-11-077-550-4	Sequence 4, Appl1
390	27	56.2	423	9	US-10-336-263A-10	Sequence 10, Appl	463	27	56.2	907	11	US-11-077-550-16	Sequence 16, Appl
391	27	56.2	424	11	US-11-087-009-999	Sequence 999, App	464	27	56.2	908	11	US-11-077-550-64	Sequence 64, Appl
392	27	56.2	424	11	US-11-146-428-46	Sequence 46, Appl	465	27	56.2	914	11	US-11-077-550-64	Sequence 60, Appl
393	27	56.2	425	9	US-10-536-263A-2	Sequence 2, Appl1	466	27	56.2	916	11	US-11-096-566A-32061	Sequence 3061, A
394	27	56.2	425	11	US-11-087-009-3788	Sequence 3788, Ap	467	27	56.2	919	11	US-11-096-566A-32060	Sequence 32060, A
395	27	56.2	425	11	US-11-096-566A-12787	Sequence 12787, A	468	27	56.2	949	11	US-11-077-550-68	Sequence 68, Appl
396	27	56.2	425	11	US-11-188-298-14539	Sequence 14539, A	469	27	56.2	953	11	US-11-077-550-14	Sequence 14, Appl
397	27	56.2	429	11	US-11-096-566A-7221	Sequence 7221, Ap	470	27	56.2	955	11	US-11-096-566A-29141	Sequence 29141, A
398	27	56.2	430	11	US-11-188-298-12301	Sequence 12301, A	471	27	56.2	1013	11	US-11-077-550-18	Sequence 18, Appl
399	27	56.2	449	11	US-11-079-463-9038	Sequence 9038, A	472	27	56.2	1015	11	US-11-096-566A-29140	Sequence 29140, A
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402	27	56.2	462	11	US-11-000-463-456	Sequence 456, App	475	27	56.2	1067	11	US-11/062	Sequence 3, Appl1
403	27	56.2	462	11	US-11-096-566A-12786	Sequence 12786, A	476	27	56.2	1076	9	US-10-902-137-6	Sequence 6, Appl1
404	27	56.2	463	11	US-11-087-009-9184	Sequence 9184, Ap	477	27	56.2	1092	11	US-11-072-512-2475	Sequence 6, Appl1
405	27	56.2	467	11	US-11-087-009-4884	Sequence 4884, Ap	478	27	56.2	1098	11	US-11-072-512-2475	Sequence 2475, Ap
406	27	56.2	469	11	US-11-087-009-1004	Sequence 1004, Ap	479	27	56.2	1110	9	US-10-902-137-4	Sequence 4, Appl1
407	27	56.2	480	9	US-10-336-263A-8	Sequence 8, Appl1	480	27	56.2	1127	11	US-11-077-550-40	Sequence 40, Appl
408	27	56.2	481	11	US-11-096-566A-7220	Sequence 7220, Ap	481	27	56.2	1127	11	US-11-077-550-50	Sequence 50, Appl
409	27	56.2	526	11	US-11-096-566A-34163	Sequence 34163, A	482	27	56.2	1127	11	US-11-077-550-54	Sequence 54, Appl
410	27	56.2	544	11	US-11-188-298-9124	Sequence 9124, Ap	483	27	56.2	1127	11	US-11-077-550-58	Sequence 58, Appl
411	27	56.2	544	11	US-11-188-298-9865	Sequence 9865, Ap	484	27	56.2	1129	11	US-11-077-550-42	Sequence 42, Appl
412	27	56.2	545	11	US-11-188-298-3478	Sequence 3478, Ap	485	27	56.2	1129	11	US-11-077-550-48	Sequence 48, Appl
413	27	56.2	563	11	US-11-188-298-22102	Sequence 22102, A	486	27	56.2	1129	11	US-11-077-550-52	Sequence 52, Appl
414	27	56.2	571	9	US-10-216-161A-132	Sequence 132, App	487	27	56.2	1129	11	US-11-077-550-56	Sequence 56, Appl
415	27	56.2	589	11	US-11-087-009-2960	Sequence 2960, Ap	488	27	56.2	1130	11	US-11-077-550-44	Sequence 44, Appl
416	27	56.2	589	11	US-11-087-009-3314	Sequence 3314, Ap	489	27	56.2	1130	11	US-11-077-550-139	Sequence 139, Appl
417	27	56.2	589	11	US-11-087-009-5988	Sequence 5988, Ap	490	27	56.2	1132	11	US-11-077-550-46	Sequence 46, Appl
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419	27	56.2	590	11	US-11-087-009-8075	Sequence 8075, Ap	492	27	56.2	1436	9	US-10-453-372-1092	Sequence 1092, Ap
420	27	56.2	591	11	US-11-087-009-5735	Sequence 5735, Ap	493	27	56.2	1593	9	US-10-453-372-1445	Sequence 145, App
421	27	56.2	592	11	US-11-188-298-422	Sequence 422, App	494	27	56.2	1613	9	US-10-055-877-145	Sequence 145, App
422	27	56.2	639	11	US-11-072-512-3268	Sequence 3268, Ap	495	27	56.2	1637	9	US-10-055-877-144	Sequence 144, App
423	27	56.2	640	11	US-11-087-009-4980	Sequence 4980, Ap	496	27	56.2	1985	9	US-10-501-035-218	Sequence 218, Appl
424	27	56.2	651	11	US-11-098-666-11428	Sequence 11428, A	497	27	56.2	2339	11	US-11-096-566-181-11	Sequence 11, Appl
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426	27	56.2	749	11	US-11-079-463-5493	Sequence 5493, Ap	499	27	56.2	4473	9	US-10-895-064-460	Sequence 460, App
427	27	56.2	770	9	US-10-506-454-252	Sequence 252, App	500	27	56.2	4473	11	US-11-129-741-460	Sequence 460, App
428	27	56.2	783	11	US-11-188-298-9347	Sequence 9347, Ap	501	27	56.2	4473	11	US-11-129-741-460	Sequence 5646, Ap
429	27	56.2	783	11	US-11-188-298-20530	Sequence 20530, A	502	27	56.2	563	11	US-11-040-021-23	Sequence 23, Appl
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432	27	56.2	839	9	US-10-725-475-6	Sequence 6, Appl1	505	26	56.2	10	9	US-10-530-061-535	Sequence 535, App
433	27	56.2	841	9	US-11-050-804-4	Sequence 4, Appl1	506	26	56.2	13	11	US-11-129-741-4141	Sequence 4141, Ap
434	27	56.2	841	9	US-10-501-035-305	Sequence 305, App	507	26	56.2	15	9	US-10-530-061-1696	Sequence 1696, Ap
435	27	56.2	844	11	US-11-127-877-40	Sequence 40, Appl	508	26	56.2	15	9	US-10-530-061-1697	Sequence 1697, Ap
436	27	56.2	863	11	US-11-124-368A-234	Sequence 234, App	509	26	56.2	15	9	US-10-530-061-1709	Sequence 1709, Ap
437	27	56.2	863	11	US-11-077-550-34	Sequence 34, App	510	26	56.2	16	9	US-10-928-988-63	Sequence 83, Appl
438	27	56.2	863	11	US-11-077-550-36	Sequence 36, Appl	511	26	56.2	18	11	US-11-106-115-397	Sequence 397, App
439	27	56.2	863	11	US-11-077-550-36	Sequence 36, Appl	512	26	56.2	18	11	US-11-106-115-399	Sequence 399, App
440	27	56.2	866	11	US-11-077-550-32	Sequence 38, Appl	513	26	56.2	18	11	US-11-233-556-397	Sequence 397, App
441	27	56.2	867	9	US-10-725-475-19	Sequence 32, Appl	514	26	56.2	18	11	US-11-233-556-399	Sequence 399, App
442	27	56.2	871	11	US-11-077-550-8	Sequence 19, Appl	515	26	56.2	47	11	US-11-123-896-294	Sequence 294, App
443	27	56.2	871	11	US-11-077-550-8	Sequence 8, Appl1	516	26	56.2	47	11	US-11-123-896-315	Sequence 315, App
444	27	56.2	871	11	US-11-077-550-26	Sequence 26, Appl	517	26	56.2	47	11	US-11-123-896-357	Sequence 357, App
445	27	56.2	871	11	US-11-077-550-153	Sequence 153, App	518	26	56.2	52	11	US-11-033-105A-13	Sequence 11, Appl
446	27	56.2	871	11	US-11-077-550-155	Sequence 155, App	519	26	56.2	52	11	US-11-033-105A-13	Sequence 766, Ap
447	27	56.2	873	11	US-11-077-550-6	Sequence 6, Appl1	520	26	56.2	63	11	US-10-467-657-7676	Sequence 7676, App
448	27	56.2	873	11	US-11-077-550-149	Sequence 149, App	521	26	56.2	68	11	US-11-090-617-700	Sequence 700, App
449	27	56.2	873	11	US-11-077-550-151	Sequence 151, App	522	26	56.2	68	11	US-11-079-463-6627	Sequence 6627, Ap
450	27	56.2	873	11	US-11-077-550-163	Sequence 163, App	523	26	56.2	68	11	US-11-079-463-8599	Sequence 8599, Ap
451	27	56.2	873	11	US-11-077-550-165	Sequence 165, App	524	26	56.2	70	9	US-10-508-376-21	Sequence 21, Appl
452	27	56.2	873	11	US-11-077-550-167	Sequence 167, App	525	26	56.2	71	9	US-10-508-376-16	Sequence 16, Appl
453	27	56.2	873	11	US-11-077-550-169	Sequence 169, App	526	26	56.2	73	9	US-10-508-376-15	Sequence 15, Appl
454	27	56.2	875	11	US-11-077-550-10	Sequence 10, Appl	527	26	56.2	73	9	US-10-508-376-17	Sequence 17, Appl
455	27	56.2	876	11	US-11-077-550-66	Sequence 66, Appl	528	26	56.2	73	9	US-10-508-376-18	Sequence 18, Appl
456	27	56.2	877	11	US-11-077-550-157	Sequence 157, App	529	26	56.2	73	9	US-10-508-376-19	Sequence 19, Appl
457	27	56.2	878	11	US-11-077-550-12	Sequence 12, Appl	530	26	56.2	73	9	US-10-508-376-20	Sequence 20, Appl
458	27	56.2	878	11	US-11-077-550-62	Sequence 62, Appl	531	26	56.2	73	9	US-10-508-376-23	Sequence 23, Appl
459	27	56.2	879	11	US-11-077-550-30	Sequence 30, Appl	532	26	56.2	73	9	US-10-508-376-24	Sequence 24, Appl

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534	26	54.2	74	9	US-10-508-376-13	Sequence 13, Appl	607	26	54.2	269	11	US-11-096-568A-9091	Sequence 9091, Ap
535	26	54.2	76	9	US-10-508-376-22	Sequence 22, Appl	608	26	54.2	269	11	US-11-096-568A-9093	Sequence 9093, Ap
536	26	54.2	76	11	US-11-123-896-356	Sequence 356, App	609	26	54.2	269	11	US-11-096-568A-17510	Sequence 17510, A
537	26	54.2	78	11	US-11-123-896-314	Sequence 314, App	610	26	54.2	273	9	US-11-096-568A-31761	Sequence 31761, A
538	26	54.2	79	11	US-11-123-896-293	Sequence 293, App	611	26	54.2	273	9	US-10-353-783-53	Sequence 53, Appl
539	26	54.2	91	11	US-11-264-096-1535	Sequence 1535, App	612	26	54.2	273	11	US-11-087-099-6928	Sequence 40, Appl
540	26	54.2	91	11	US-11-264-096-1537	Sequence 1537, App	613	26	54.2	276	11	US-11-087-099-6928	Sequence 6928, Ap
541	26	54.2	91	11	US-11-087-099-3493	Sequence 3493, App	614	26	54.2	278	11	US-11-096-568A-31313	Sequence 31313, A
542	26	54.2	105	11	US-11-045-004-1151	Sequence 1151, App	615	26	54.2	279	11	US-11-087-099-12352	Sequence 12352, A
543	26	54.2	107	11	US-11-072-512-3918	Sequence 3918, App	616	26	54.2	281	11	US-11-096-568A-31760	Sequence 31760, A
544	26	54.2	111	11	US-10-644-807-243	Sequence 243, App	617	26	54.2	283	11	US-11-096-568A-2550	Sequence 2550, Ap
545	26	54.2	125	9	US-10-644-807-336	Sequence 336, App	618	26	54.2	288	11	US-11-096-568A-34094	Sequence 34094, A
546	26	54.2	125	9	US-10-644-807-336	Sequence 9290, App	619	26	54.2	288	11	US-11-088-298-11908	Sequence 11908, A
547	26	54.2	125	9	US-11-087-099-9290	Sequence 9272, App	620	26	54.2	288	11	US-11-188-298-21232	Sequence 21232, A
548	26	54.2	140	11	US-11-087-099-9272	Sequence 2342, App	621	26	54.2	293	11	US-11-096-568A-8860	Sequence 8860, Ap
549	26	54.2	144	9	US-10-467-657-2342	Sequence 24, Appl	622	26	54.2	293	11	US-11-096-568A-8862	Sequence 8862, Ap
550	26	54.2	149	9	US-10-530-253-24	Sequence 9082, App	623	26	54.2	293	11	US-11-045-004-219	Sequence 219, App
551	26	54.2	153	11	US-11-188-298-9082	Sequence 10360, A	624	26	54.2	294	8	US-10-505-928-33	Sequence 33, Appl
552	26	54.2	153	11	US-11-188-298-10360	Sequence 10360, A	625	26	54.2	294	11	US-11-188-298-13177	Sequence 13177, A
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554	26	54.2	161	11	US-11-096-568A-9092	Sequence 9092, App	627	26	54.2	296	11	US-11-079-463-6164	Sequence 17509, A
555	26	54.2	165	11	US-11-045-004-2124	Sequence 2124, App	628	26	54.2	298	11	US-11-096-568A-11907	Sequence 11907, A
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558	26	54.2	172	11	US-11-087-099-12282	Sequence 12282, A	631	26	54.2	300	11	US-11-098-686-11358	Sequence 12647, A
559	26	54.2	174	11	US-11-087-099-652	Sequence 652, App	632	26	54.2	302	11	US-11-096-568A-12667	Sequence 12667, A
560	26	54.2	174	11	US-11-087-099-5618	Sequence 5618, App	633	26	54.2	302	11	US-11-087-099-10537	Sequence 10537, A
561	26	54.2	174	11	US-11-087-099-6620	Sequence 6620, App	634	26	54.2	303	9	US-10-467-657-1770	Sequence 1770, App
562	26	54.2	176	9	US-11-188-298-10713	Sequence 10713, A	635	26	54.2	304	11	US-11-096-568A-33112	Sequence 33112, A
563	26	54.2	176	9	US-10-965-694-10	Sequence 10, Appl	636	26	54.2	312	11	US-11-096-568A-33111	Sequence 33111, A
564	26	54.2	176	9	US-10-965-694-15	Sequence 15, Appl	637	26	54.2	313	11	US-11-096-568A-33111	Sequence 11906, A
565	26	54.2	176	9	US-10-965-694-19	Sequence 19, Appl	638	26	54.2	315	11	US-11-156-084-354	Sequence 354, App
566	26	54.2	176	11	US-11-087-099-7364	Sequence 7364, App	639	26	54.2	316	11	US-11-087-099-1338	Sequence 1338, App
567	26	54.2	176	11	US-11-188-298-18888	Sequence 18888, A	640	26	54.2	320	11	US-11-087-099-1338	Sequence 4699, App
568	26	54.2	177	11	US-11-144-947-565	Sequence 565, App	641	26	54.2	321	9	US-10-455-772-338	Sequence 338, App
569	26	54.2	178	9	US-10-467-657-9141	Sequence 9141, App	642	26	54.2	321	9	US-10-455-772-338	Sequence 336, App
570	26	54.2	180	11	US-11-072-512-3076	Sequence 3076, App	643	26	54.2	323	11	US-11-079-463-8907	Sequence 8907, App
571	26	54.2	182	11	US-11-098-686-10828	Sequence 10828, A	644	26	54.2	324	11	US-11-087-099-11792	Sequence 11792, A
572	26	54.2	182	11	US-11-087-099-2422	Sequence 2422, App	645	26	54.2	334	9	US-10-497-135-16	Sequence 16, Appl
573	26	54.2	182	11	US-11-087-099-3429	Sequence 3429, App	646	26	54.2	334	11	US-11-269-225-15	Sequence 15, Appl
574	26	54.2	182	11	US-11-087-099-9432	Sequence 9432, App	647	26	54.2	337	9	US-10-497-135-15	Sequence 4698, App
575	26	54.2	182	11	US-11-087-099-9708	Sequence 9708, App	648	26	54.2	337	11	US-11-096-568A-23345	Sequence 23345, A
576	26	54.2	182	11	US-11-087-099-9708	Sequence 10821, A	649	26	54.2	337	11	US-11-096-568A-23345	Sequence 15, Appl
577	26	54.2	182	11	US-11-087-099-9708	Sequence 219, App	650	26	54.2	337	11	US-11-269-225-15	Sequence 15, Appl
578	26	54.2	183	11	US-11-087-099-4693	Sequence 4693, App	651	26	54.2	339	11	US-11-188-298-17134	Sequence 23344, A
579	26	54.2	183	11	US-11-087-099-4693	Sequence 2506, App	652	26	54.2	340	11	US-11-096-568A-8859	Sequence 8859, App
580	26	54.2	184	11	US-11-045-004-2506	Sequence 546, App	653	26	54.2	348	11	US-11-096-568A-8859	Sequence 15052, A
581	26	54.2	184	11	US-11-087-099-4741	Sequence 4741, App	654	26	54.2	352	11	US-11-188-298-15052	Sequence 84, Appl
582	26	54.2	184	11	US-11-087-099-4741	Sequence 10576, A	655	26	54.2	354	9	US-10-878-5568-84	Sequence 4, Appl
583	26	54.2	186	11	US-11-087-099-4741	Sequence 4741, App	656	26	54.2	354	11	US-11-100-640-4	Sequence 6865, App
584	26	54.2	186	11	US-11-087-099-11303	Sequence 11303, A	657	26	54.2	359	11	US-11-087-099-6885	Sequence 12228, A
585	26	54.2	188	11	US-11-087-099-597	Sequence 126, App	658	26	54.2	359	11	US-11-087-099-12228	Sequence 4697, App
586	26	54.2	189	9	US-10-194-487-126	Sequence 126, App	659	26	54.2	360	11	US-11-096-568A-4697	Sequence 7613, App
587	26	54.2	189	9	US-10-195-883-126	Sequence 887, App	660	26	54.2	361	11	US-11-188-298-7613	Sequence 1335, App
588	26	54.2	189	9	US-10-195-888-126	Sequence 126, App	661	26	54.2	378	11	US-11-188-298-2099	Sequence 2099, App
589	26	54.2	189	9	US-10-195-889-126	Sequence 422, App	662	26	54.2	378	11	US-11-188-298-2099	Sequence 11251, A
590	26	54.2	191	9	US-10-644-807-422	Sequence 3754, App	663	26	54.2	379	11	US-11-188-298-11251	Sequence 23343, A
591	26	54.2	194	11	US-11-087-099-3754	Sequence 8262, App	664	26	54.2	380	10	US-11-096-568A-23343	Sequence 4118, App
592	26	54.2	199	11	US-11-087-099-8262	Sequence 7436, App	665	26	54.2	381	11	US-10-467-657-4118	Sequence 7231, App
593	26	54.2	202	11	US-11-087-099-7436	Sequence 145, App	666	26	54.2	383	9	US-11-087-099-7231	Sequence 16939, A
594	26	54.2	206	9	US-10-873-528-145	Sequence 11570, A	667	26	54.2	385	11	US-11-188-298-16939	Sequence 3822, App
595	26	54.2	216	11	US-11-087-099-11570	Sequence 19358, A	668	26	54.2	388	11	US-11-087-099-3822	Sequence 3822, App
596	26	54.2	217	11	US-11-188-298-19358	Sequence 24914, A	669	26	54.2	388	11	US-11-188-298-3583	Sequence 5828, App
597	26	54.2	223	11	US-11-096-568A-24914	Sequence 7542, App	670	26	54.2	394	11	US-11-188-298-5825	Sequence 55, Appl
598	26	54.2	228	11	US-11-188-298-7542	Sequence 676, App	671	26	54.2	400	11	US-11-127-877-55	Sequence 22104, A
599	26	54.2	236	9	US-10-467-657-676	Sequence 1846, App	672	26	54.2	400	11	US-11-188-298-22104	Sequence 25493, App
600	26	54.2	254	9	US-10-506-454-887	Sequence 1846, App	673	26	54.2	404	11	US-11-096-568A-25493	Sequence 34093, A
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603	26	54.2	258	9	US-10-204-639-5	Sequence 8641, App	676	26	54.2	412	11	US-11-072-512-3475	Sequence 3475, App
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684	26	54.2	451	9	US-10-506-454-1647	Sequence 1647, Ap	757	26	54.2	968	9	US-10-506-454-1177	Sequence 1177, Ap
685	26	54.2	457	8	US-10-505-928-761	Sequence 761, App	758	26	54.2	984	9	US-10-995-561-629	Sequence 629, App
686	26	54.2	457	9	US-10-951-236-1	Sequence 1, Appl1	759	26	54.2	1001	11	US-11-132-885-40	Sequence 40, Appl
687	26	54.2	457	9	US-10-951-236-10	Sequence 10, Appl1	760	26	54.2	1013	9	US-10-131-826A-38	Sequence 38, Appl1
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697	26	54.2	482	11	US-11-188-298-5046	Sequence 5046, Ap	770	26	54.2	1676	11	US-11-180-074-4	Sequence 4, Appl1
698	26	54.2	483	9	US-10-934-944-156	Sequence 156, App	771	26	54.2	1854	11	US-11-193-561-25	Sequence 25, Appl1
699	26	54.2	483	9	US-10-514-581-6	Sequence 6, Appl1	772	26	54.2	2176	11	US-11-193-771-25	Sequence 25, Appl1
700	26	54.2	483	9	US-10-514-581-9	Sequence 9, Appl1	773	26	54.2	2176	11	US-11-193-789-25	Sequence 25, Appl1
701	26	54.2	483	9	US-10-514-581-15	Sequence 15, Appl1	774	26	54.2	2176	11	US-11-193-806-25	Sequence 25, Appl1
702	26	54.2	483	11	US-11-116-881A-165	Sequence 165, App	775	26	54.2	2176	11	US-11-193-857-25	Sequence 25, Appl1
703	26	54.2	490	11	US-11-096-568A-12645	Sequence 12645, A	776	26	54.2	2217	11	US-11-193-771-38	Sequence 38, Appl1
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705	26	54.2	506	11	US-11-182-016-32	Sequence 32, Appl1	778	26	54.2	2217	11	US-11-193-806-2	Sequence 2, Appl1
706	26	54.2	510	11	US-11-087-099-4252	Sequence 4252, Ap	779	26	54.2	2217	11	US-11-193-806-38	Sequence 38, Appl1
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712	26	54.2	512	11	US-11-188-298-13770	Sequence 13770, A	785	26	54.2	2223	11	US-11-193-806-2	Sequence 2, Appl1
713	26	54.2	517	11	US-11-087-099-1434	Sequence 1434, Ap	786	26	54.2	2223	11	US-11-193-561-633	Sequence 633, App
714	26	54.2	517	11	US-11-116-881A-370	Sequence 370, App	787	26	54.2	2296	9	US-11-193-561-23	Sequence 23, Appl1
715	26	54.2	517	11	US-11-188-298-8213	Sequence 8213, Ap	788	26	54.2	2296	11	US-11-193-771-23	Sequence 23, Appl1
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718	26	54.2	517	11	US-11-096-568A-29317	Sequence 29317, A	791	26	54.2	2296	11	US-11-193-789-23	Sequence 23, Appl1
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723	26	54.2	567	11	US-11-120-422-7	Sequence 7, Appl1	796	26	54.2	2330	11	US-11-193-806-21	Sequence 21, Appl1
724	26	54.2	568	11	US-11-226-480-10	Sequence 10, Appl1	797	26	54.2	2330	11	US-11-193-857-21	Sequence 21, Appl1
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726	26	54.2	570	11	US-11-096-568A-29686	Sequence 29686, A	799	26	54.2	2335	11	US-11-193-561-19	Sequence 19, Appl1
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729	26	54.2	603	9	US-10-514-581-13	Sequence 13, Appl1	802	26	54.2	2335	11	US-11-193-806-19	Sequence 19, Appl1
730	26	54.2	626	11	US-11-045-004-447	Sequence 447, App	803	26	54.2	2335	11	US-11-193-857-19	Sequence 19, Appl1
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735	26	54.2	657	11	US-11-193-771-27	Sequence 27, Appl1	808	26	54.2	2421	11	US-11-193-771-17	Sequence 17, Appl1
736	26	54.2	657	11	US-11-193-789-27	Sequence 27, Appl1	809	26	54.2	2421	11	US-11-193-789-17	Sequence 17, Appl1
737	26	54.2	657	11	US-11-193-806-27	Sequence 27, Appl1	810	26	54.2	2421	11	US-11-193-806-17	Sequence 17, Appl1
738	26	54.2	657	11	US-11-193-857-27	Sequence 27, Appl1	811	26	54.2	2421	11	US-11-193-857-17	Sequence 17, Appl1
739	26	54.2	657	11	US-11-193-857-27	Sequence 27, Appl1	812	26	54.2	2421	11	US-11-193-857-15	Sequence 15, Appl1
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745	26	54.2	759	11	US-11-072-512-2512	Sequence 2512, Ap	818	26	54.2	2871	11	US-11-169-925-3	Sequence 3, Appl1
746	26	54.2	779	9	US-11-096-568A-1544	Sequence 1544, Ap	819	26	54.2	3002	9	US-11-169-925-3	Sequence 3, Appl1
747	26	54.2	784	11	US-11-096-568A-1543	Sequence 1543, Ap	820	26	54.2	3803	9	US-10-995-561-773	Sequence 773, App
748	26	54.2	791	9	US-10-537-002-65	Sequence 65, Appl1	821	26	54.2	3960	9	US-10-995-561-771	Sequence 771, App
749	26	54.2	802	11	US-11-079-463-7102	Sequence 7102, Ap	822	26	54.2	4128	9	US-10-501-035-263	Sequence 263, App
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751	26	54.2	821	9	US-10-523-328-17	Sequence 17, Appl1	824	26	54.2	5335	9	US-10-995-561-777	Sequence 777, App

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827	26	54.2	5415	9	US-10-995-561-779	Sequence 779, App	900	25	52.1	215	11	US-11-096-568A-19262	Sequence 19262, A
828	26	54.2	5464	9	US-10-995-561-775	Sequence 775, App	901	25	52.1	216	11	US-11-079-463-7603	Sequence 7603, App
829	25.5	53.1	31	9	US-10-467-657-9001	Sequence 9001, Ap	902	25	52.1	220	11	US-11-188-298-9254	Sequence 9254, App
830	25.5	53.1	766	9	US-10-821-234-1591	Sequence 1691, Ap	903	25	52.1	227	11	US-11-098-686-11198	Sequence 11198, A
831	25	53.1	9	9	US-10-530-061-88	Sequence 88, Appl	904	25	52.1	228	9	US-10-467-657-7522	Sequence 7522, Ap
832	25	53.1	9	9	US-10-530-061-816	Sequence 816, App	905	25	52.1	229	11	US-11-188-298-13055	Sequence 13055, A
833	25	53.1	10	9	US-10-530-061-550	Sequence 550, App	906	25	52.1	230	11	US-11-185-963-2	Sequence 2, Appl
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836	25	53.1	15	9	US-10-530-061-1706	Sequence 1706, Ap	909	25	52.1	234	9	US-10-485-517-201	Sequence 201, App
837	25	53.1	17	9	US-11-106-415-217	Sequence 217, App	910	25	52.1	234	11	US-11-096-568A-5599	Sequence 5599, App
838	25	53.1	18	11	US-11-106-415-274	Sequence 274, App	912	25	52.1	237	11	US-11-188-298-15774	Sequence 15774, A
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846	25	53.1	20	11	US-11-023-562-184	Sequence 184, App	920	25	52.1	252	11	US-10-455-772-620	Sequence 620, App
847	25	53.1	20	11	US-11-106-415-104	Sequence 104, App	921	25	52.1	256	9	US-11-096-568A-6225	Sequence 6225, Ap
848	25	53.1	20	11	US-11-233-256-104	Sequence 104, App	922	25	52.1	257	11	US-11-188-298-13975	Sequence 13975, A
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850	25	53.1	59	11	US-11-096-568A-7742	Sequence 7742, Ap	924	25	52.1	259	11	US-11-087-099-4094	Sequence 4094, Ap
851	25	53.1	62	11	US-11-004-399-2220	Sequence 2220, Ap	925	25	52.1	259	11	US-11-079-463-5752	Sequence 5752, Ap
852	25	53.1	64	11	US-11-079-463-9165	Sequence 9165, Ap	926	25	52.1	261	11	US-11-096-568A-33133	Sequence 33133, A
853	25	53.1	68	11	US-11-079-463-9823	Sequence 9823, Ap	927	25	52.1	262	11	US-11-087-099-9036	Sequence 9036, Ap
854	25	53.1	72	11	US-11-214-613-94	Sequence 94, Appl	928	25	52.1	265	11	US-10-495-597-5	Sequence 5, Appl
855	25	53.1	88	9	US-10-948-571-61	Sequence 61, Appl	929	25	52.1	267	9	US-11-079-463-8304	Sequence 8304, Ap
856	25	53.1	91	11	US-11-079-463-9567	Sequence 9567, Ap	930	25	52.1	268	11	US-10-821-234-1328	Sequence 1328, Ap
857	25	53.1	99	11	US-11-264-096-1146	Sequence 1146, Ap	931	25	52.1	277	9	US-10-878-556A-54	Sequence 54, Appl
858	25	53.1	101	9	US-10-467-657-7350	Sequence 7350, Ap	932	25	52.1	281	11	US-11-214-613-2	Sequence 2, Appl
859	25	53.1	103	11	US-11-096-568A-2029	Sequence 2029, Ap	933	25	52.1	281	11	US-11-087-099-6234	Sequence 6234, Ap
860	25	53.1	103	11	US-11-079-463-5919	Sequence 5919, Ap	934	25	52.1	285	11	US-11-198-298-1670	Sequence 1670, A
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862	25	53.1	118	11	US-11-072-512-3738	Sequence 3738, A	936	25	52.1	288	11	US-11-096-568A-8142	Sequence 8142, Ap
863	25	53.1	120	11	US-11-072-512-2185	Sequence 2185, Ap	937	25	52.1	292	9	US-10-770-726-53	Sequence 53, Appl
864	25	53.1	120	11	US-11-096-568A-12352	Sequence 12352, A	938	25	52.1	292	11	US-11-096-568A-2922	Sequence 2922, Ap
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866	25	53.1	132	11	US-11-188-298-19945	Sequence 19945, A	940	25	52.1	293	11	US-11-214-613-36	Sequence 36, Appl
867	25	53.1	135	11	US-11-096-568A-5601	Sequence 5601, Ap	941	25	52.1	294	11	US-11-087-099-3038	Sequence 3038, Ap
868	25	53.1	140	9	US-10-644-807-306	Sequence 306, App	942	25	52.1	296	11	US-11-079-463-8704	Sequence 8704, Ap
869	25	53.1	142	11	US-11-096-568A-2028	Sequence 2028, Ap	943	25	52.1	299	11	US-11-214-613-39	Sequence 39, Appl
870	25	53.1	142	11	US-11-045-004-1070	Sequence 1070, Ap	944	25	52.1	299	11	US-11-074-374-112	Sequence 112, Appl
871	25	53.1	148	9	US-10-530-253-22	Sequence 22, Appl	945	25	52.1	299	11	US-11-172-760-1117	Sequence 1117, Ap
872	25	53.1	149	11	US-11-096-568A-12138	Sequence 12138, A	946	25	52.1	299	11	US-11-154-293-24	Sequence 24, Appl
873	25	53.1	151	11	US-11-022-562-215	Sequence 215, App	947	25	52.1	301	11	US-11-214-613-42	Sequence 42, Appl
874	25	53.1	151	11	US-11-188-298-21782	Sequence 21782, A	948	25	52.1	301	11	US-11-214-613-42	Sequence 42, Appl
875	25	53.1	159	9	US-10-330-773-819	Sequence 819, App	949	25	52.1	305	11	US-11-096-568A-8543	Sequence 8543, Ap
876	25	53.1	160	11	US-11-188-298-2842	Sequence 2842, Ap	950	25	52.1	305	11	US-11-045-004-1434	Sequence 1434, Ap
877	25	53.1	161	9	US-10-511-130-24	Sequence 24, Appl	951	25	52.1	306	11	US-11-098-686-10571	Sequence 10571, A
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879	25	53.1	161	11	US-11-079-463-7422	Sequence 7422, Ap	953	25	52.1	310	11	US-11-047-757-5	Sequence 5, Appl
880	25	53.1	163	11	US-11-188-298-1891	Sequence 1891, Ap	954	25	52.1	310	11	US-11-055-163-7	Sequence 7, Appl
881	25	53.1	168	11	US-11-096-568A-12351	Sequence 12351, A	955	25	52.1	310	11	US-11-096-568A-16039	Sequence 16039, A
882	25	53.1	173	11	US-11-087-099-5501	Sequence 5501, Ap	956	25	52.1	310	11	US-11-166-889-23	Sequence 23, Appl
883	25	53.1	174	11	US-11-072-512-2771	Sequence 2771, App	957	25	52.1	310	11	US-11-074-490-5	Sequence 5, Appl
884	25	53.1	174	11	US-11-264-096-316	Sequence 316, App	958	25	52.1	310	11	US-11-079-463-7	Sequence 7, Appl
885	25	53.1	176	11	US-11-188-298-20217	Sequence 20217, A	959	25	52.1	310	11	US-11-055-163-9	Sequence 9, Appl
886	25	53.1	181	11	US-11-087-099-9675	Sequence 9675, Ap	960	25	52.1	310	11	US-11-074-490-5	Sequence 5, Appl
887	25	53.1	181	11	US-11-096-568A-5600	Sequence 5600, Ap	961	25	52.1	310	11	US-11-154-293-22	Sequence 22, Appl
888	25	53.1	181	11	US-11-096-568A-8544	Sequence 8544, Ap	962	25	52.1	311	11	US-11-214-613-16	Sequence 16, Appl
889	25	53.1	181	11	US-11-096-568A-12137	Sequence 12137, A	963	25	52.1	311	11	US-11-214-613-30	Sequence 30, Appl
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891	25	53.1	190	11	US-11-182-016-41	Sequence 41, Appl	965	25	52.1	311	11	US-10-495-597-6	Sequence 6, Appl
892	25	53.1	192	9	US-10-644-807-403	Sequence 403, App	966	25	52.1	312	9	US-11-096-568A-16039	Sequence 20, Appl
893	25	53.1	194	9	US-10-467-657-3978	Sequence 3978, Ap	967	25	52.1	314	9	US-10-455-772-618	Sequence 618, App
894	25	53.1	201	11	US-11-123-873-7	Sequence 7, Appl	968	25	52.1	314	9	US-10-455-772-622	Sequence 622, App
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897	25	53.1	205	11	US-11-188-298-1206	Sequence 1206, Ap	970	25	52.1	314	9	US-10-455-772-622	Sequence 622, App

971 25 52.1 314 9 US-10-455-772-624 Sequence 624, App
972 25 52.1 314 9 US-10-455-772-626 Sequence 626, App
973 25 52.1 314 9 US-10-455-772-628 Sequence 628, App
974 25 52.1 314 9 US-10-455-772-630 Sequence 630, App
975 25 52.1 314 9 US-10-455-772-632 Sequence 632, App
976 25 52.1 314 9 US-10-455-772-634 Sequence 634, App
977 25 52.1 314 9 US-10-455-772-636 Sequence 636, App
978 25 52.1 314 9 US-10-455-772-638 Sequence 638, App
979 25 52.1 314 9 US-10-455-772-640 Sequence 640, App
980 25 52.1 314 9 US-10-455-772-642 Sequence 642, App
981 25 52.1 314 9 US-10-455-772-644 Sequence 644, App
982 25 52.1 314 9 US-10-455-772-646 Sequence 646, App
983 25 52.1 314 9 US-10-455-772-648 Sequence 648, App
984 25 52.1 314 9 US-10-455-772-650 Sequence 650, App
985 25 52.1 314 9 US-10-455-772-652 Sequence 652, App
986 25 52.1 314 9 US-10-455-772-654 Sequence 654, App
987 25 52.1 314 9 US-10-455-772-656 Sequence 656, App
988 25 52.1 314 9 US-10-455-772-658 Sequence 658, App
989 25 52.1 314 11 US-11-188-298-20494 Sequence 20494, A
990 25 52.1 317 9 US-10-506-454-1068 Sequence 1068, App
991 25 52.1 317 9 US-10-784-004-649 Sequence 649, App
992 25 52.1 317 9 US-10-784-004-1052 Sequence 1052, App
993 25 52.1 317 11 US-11-011-332A-21 Sequence 21, Appl
994 25 52.1 318 11 US-11-072-512-3641 Sequence 3641, A
995 25 52.1 320 11 US-11-188-298-17923 Sequence 17923, A
996 25 52.1 322 11 US-11-096-568A-8542 Sequence 8542, App
997 25 52.1 322 11 US-11-188-298-17610 Sequence 17610, A
998 25 52.1 324 9 US-10-506-454-1539 Sequence 1539, App
999 25 52.1 324 9 US-10-784-004-328 Sequence 328, App
1000 25 52.1 324 9 US-10-784-004-911 Sequence 911, App

ALIGNMENTS

RESULT 1
US-10-530-253-13
; Sequence 13, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-13
Query Match 100.0%; Score 48; DB 9; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.029; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 FAFRDLCTV 9
Db 45 FAFRDLCTV 53
RESULT 2
US-11-206-138-3
; Sequence 3, Application US/11206138
; Publication No. US20060039919A1

; GENERAL INFORMATION:
; APPLICANT: Healthspank Biotech CO. LTD.
; TITLE OF INVENTION: Fusion protein for inhibiting cervical cancer
; FILE REFERENCE: P7819/0613
; CURRENT APPLICATION NUMBER: US/11/206,138
; CURRENT FILING DATE: 2005-08-18
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
; TYPE: PRT
; LENGTH: 158
; ORGANISM: Human papillomavirus type 16
US-11-206-138-3
Query Match 100.0%; Score 48; DB 11; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.031; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 FAFRDLCTV 9
Db 52 FAFRDLCTV 60
RESULT 3
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-1
Query Match 100.0%; Score 48; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.047; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 FAFRDLCTV 9
Db 45 FAFRDLCTV 53
RESULT 4
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929

;; PRIOR FILING DATE: 2002-10-03
;; NUMBER OF SEQ ID NOS: 65
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO: 3
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;; TYPE: PRT
;; ORGANISM: Human papillomavirus type 16
US-10-530-253-3

Query Match 100.0%; Score 48; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.047;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFRDLCTV 9
Db 45 FAFRDLCTV 53

RESULT 5
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 5
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-5

Query Match 100.0%; Score 48; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.047;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFRDLCTV 9
Db 45 FAFRDLCTV 53

RESULT 6
US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 7
; LENGTH: 248

;; TYPE: PRT
;; ORGANISM: Human papillomavirus type 16
US-10-530-253-7

Query Match 100.0%; Score 48; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.047;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFRDLCTV 9
Db 142 FAFRDLCTV 150

RESULT 7
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 9
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-9

Query Match 100.0%; Score 48; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.047;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFRDLCTV 9
Db 142 FAFRDLCTV 150

RESULT 8
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 11
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-11

Query Match 100.0%; Score 48; DB 9; Length 248;

Best Local Similarity 100.0%; Pred. No. 0.047;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFRDLCIV 9
|||:|||||
Db 142 FAFRDLCIV 150

RESULT 9
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060019828A1
; GENERAL INFORMATION:
; APPLICANT: PANQ, XIAOMU
; TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
; FILE REFERENCE: 116620-003
; CURRENT APPLICATION NUMBER: US/11/192,923A
; PRIOR FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: CN 03115272.4
; PRIOR FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: CN 03115273.2
; PRIOR FILING DATE: 2003-01-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-11-192-923A-2

Query Match 100.0%; Score 48; DB 11; Length 256;
Best Local Similarity 100.0%; Pred. No. 0.048;
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QY 1 FAFRDLCIV 9
|||:|||||
Db 150 FAFRDLCIV 158

RESULT 10
US-10-530-253-20
; Sequence 20, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
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US-10-530-253-20

Query Match 93.8%; Score 45; DB 9; Length 158;
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QY 1 FAFRDLCIV 9
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Db 47 FAFRDLCIV 55

RESULT 11
US-10-530-061-780
; Sequence 780, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 780
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-780

Query Match 91.7%; Score 44; DB 9; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFRDLCI 8
|||:|||||
Db 4 FAFRDLCI 11

RESULT 12
US-10-530-061-800
; Sequence 800, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 800
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-800

Query Match 87.5%; Score 42; DB 9; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+05;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 AFRDLCIV 9
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Db 1 AFRDLCIV 8

RESULT 13
US-10-530-061-500

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; Sequence 500, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-W
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 500
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-500
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Best Local Similarity 100.0%; Pred. No. 0.034;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 2 AFRDLCIV 9
Db 1 AFRDLCIV 8
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RESULT 14
US-10-530-061-784
; Sequence 784, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-W
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
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; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 784
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-784
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Best Local Similarity 87.5%; Pred. No. 0.058;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
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QY 1 PAFRDLCI 8
Db 4 PAFRDLCI 11
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RESULT 15
US-10-530-253-26
; Sequence 26, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
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; APPLICANT: Casatelli, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 26
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 68
US-10-530-253-26
```

```
Query Match      85.4%; Score 41; DB 9; Length 158;
Best Local Similarity 77.8%; Pred. No. 0.69;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 PAFRDLCIV 9
Db 47 PAFSDLCIV 55
```

```
RESULT 16
US-10-530-061-77
; Sequence 77, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-W
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 77
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-77
```

```
Query Match      81.2%; Score 39; DB 9; Length 9;
Best Local Similarity 87.5%; Pred. No. 1.9e+05;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 2 AFRDLCIV 9
Db 1 AYRDLCIV 8
```

```
RESULT 17
US-10-530-061-799
; Sequence 799, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
```

FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 799
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-799

Query Match 81.2%; Score 39; DB 9; Length 9;
Best Local Similarity 87.5%; Pred. No. 1.9e+05;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 AFRLDCLV 9
|:|||||
Db 1 AFRLDCLV 8

RESULT 18
US-10-530-061-821
; Sequence 821, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 821
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-821

Query Match 81.2%; Score 39; DB 9; Length 9;
Best Local Similarity 87.5%; Pred. No. 1.9e+05;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 AFRLDCLV 9
|:|||||
Db 1 AFRLDCLV 8

RESULT 19
US-10-530-061-566
; Sequence 566, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04

; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 566
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-566

Query Match 81.2%; Score 39; DB 9; Length 10;
Best Local Similarity 87.5%; Pred. No. 0.13;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 AFRLDCLV 9
|:|||||
Db 1 AFRLDCLV 8

RESULT 20
US-11-229-769-160
; Sequence 160, Application US/11229769
; Publication No. US20060079670A1
; GENERAL INFORMATION:
; APPLICANT: Komatsoulis et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: P2031P1D1C1
; CURRENT APPLICATION NUMBER: US/11/229,769
; CURRENT FILING DATE: 2005-09-20
; PRIOR APPLICATION NUMBER: 10/233,453
; PRIOR FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: 09/489,847
; PRIOR FILING DATE: 2000-01-24
; PRIOR APPLICATION NUMBER: PCT/US99/17130
; PRIOR FILING DATE: 1999-07-29
; PRIOR APPLICATION NUMBER: 60/094,657
; PRIOR FILING DATE: 1998-07-30
; PRIOR APPLICATION NUMBER: 60/095,486
; PRIOR FILING DATE: 1998-08-05
; PRIOR APPLICATION NUMBER: 60/096,319
; PRIOR FILING DATE: 1998-08-12
; PRIOR APPLICATION NUMBER: 60/095,454
; PRIOR FILING DATE: 1998-08-06
; PRIOR APPLICATION NUMBER: 60/095,455
; PRIOR FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 160
; LENGTH: 162
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (162)
; OTHER INFORMATION: Xaa equals stop translation
US-11-229-769-160

Query Match 77.1%; Score 37; DB 11; Length 162;
Best Local Similarity 66.7%; Pred. No. 4.2;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 AFRLDCLV 9
||:|:|:
Db 30 PAFRLDCLV 38

RESULT 21
US-11-229-769-320
; Sequence 320, Application US/11229769

```
; Publication No. US20060079670A1
; GENERAL INFORMATION:
; APPLICANT: Komatsubashi et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: P2031PDI.C1
; CURRENT APPLICATION NUMBER: US/11/229,769
; CURRENT FILING DATE: 2005-09-20
; PRIOR APPLICATION NUMBER: 10/233,453
; PRIOR FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: 09/489,847
; PRIOR FILING DATE: 2000-01-24
; PRIOR APPLICATION NUMBER: PCT/US99/17130
; PRIOR FILING DATE: 1999-07-29
; PRIOR APPLICATION NUMBER: 60/094,657
; PRIOR FILING DATE: 1998-07-30
; PRIOR APPLICATION NUMBER: 60/095,486
; PRIOR FILING DATE: 1998-08-05
; PRIOR APPLICATION NUMBER: 60/096,319
; PRIOR FILING DATE: 1998-08-12
; PRIOR APPLICATION NUMBER: 60/095,454
; PRIOR FILING DATE: 1998-08-06
; PRIOR APPLICATION NUMBER: 60/095,455
; PRIOR FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 320
; LENGTH: 207
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-229-769-320

Query Match          77.1%; Score 37; DB 11; Length 207;
Best Local Similarity 66.7%; Pred. No. 5.3;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2630P1.C91
; CURRENT APPLICATION NUMBER: US/10/216,161A
; CURRENT FILING DATE: 2002-11-19
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: PCT/US00/04341
; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/US99/05028
; PRIOR FILING DATE: 1999-03-08
; PRIOR APPLICATION NUMBER: US 09/380,138
; PRIOR FILING DATE: 1999-08-25
; PRIOR APPLICATION NUMBER: 60/126,773
; PRIOR FILING DATE: 1999-03-29
; PRIOR APPLICATION NUMBER: 60/081,955
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 624
; SEQ ID NO 7
; LENGTH: 492
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-216-161A-7

Query Match          77.1%; Score 37; DB 9; Length 492;
Best Local Similarity 66.7%; Pred. No. 12;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 FAFRDLCIV 9
Db      76 FAFAEICV 84

RESULT 22
US-10-216-161A-7
; Sequence 7, Application US/10216161A
; Publication No. US20060078964A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerltsen, Mary B.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Thomas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
```

```
QY      2 AFRDLCIV 9
Db      1 AYWDLCIV 8

RESULT 24
US-10-530-061-820
; Sequence 820, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 91
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-91

Query Match          75.0%; Score 36; DB 9; Length 9;
Best Local Similarity 75.0%; Pred. No. 1.9e+05;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

APPLICANT: SOUTHWOOD, SCOTT
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530.061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 820
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-820

Query Match 75.0%; Score 36; DB 9; Length 9;
Best Local Similarity 75.0%; Pred. No. 1.9e+05;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 AFRLDCTV 9
Db 1 AYKDLCTV 8

RESULT 25

US-11-096-568A-8334
; Sequence 8334, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 8334
; LENGTH: 50
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)..(50)
; OTHER INFORMATION: Ceres Seq. ID no. 15224970
US-11-096-568A-8334

Query Match 72.9%; Score 35; DB 11; Length 50;
Best Local Similarity 66.7%; Pred. No. 3.5;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 FAFRLDCTV 9
Db 28 FCFRSLCTL 36

RESULT 26

US-11-096-568A-32628
; Sequence 32628, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 32628

LENGTH: 377
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)..(377)
; OTHER INFORMATION: Ceres Seq. ID no. 13593695
US-11-096-568A-32628

Query Match 72.9%; Score 35; DB 11; Length 377;
Best Local Similarity 62.5%; Pred. No. 23;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFRLDCT 8
Db 61 FTFRELCTV 68

RESULT 27

US-11-096-568A-32627
; Sequence 32627, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 32627
; LENGTH: 386
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)..(386)
; OTHER INFORMATION: Ceres Seq. ID no. 13593694
US-11-096-568A-32627

Query Match 72.9%; Score 35; DB 11; Length 386;
Best Local Similarity 62.5%; Pred. No. 23;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFRLDCT 8
Db 70 FTFRELCTV 77

RESULT 28

US-10-530-061-499
; Sequence 499, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530.061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 499
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus

US-10-530-061-499

Query Match 70.8%; Score 34; DB 9; Length 10;
 Best Local Similarity 87.5%; Pred. No. 1.2;
 Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 AFRDLCIV 9
 |||:|:
 Db 1 AFRDLCIV 8

RESULT 29
 US-11-096-568A-15982
 ; Sequence 15982, Application US/11096568A
 ; Publication No. US20060048240A1
 ; GENERAL INFORMATION:

APPLICANT: Alexandrov, Nikolai et al.
 TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides

FILE REFERENCE: 2750-1592PUS2

CURRENT APPLICATION NUMBER: US/11/096,568A

CURRENT FILING DATE: 2005-04-01

NUMBER OF SEQ ID NOS: 34471

SEQ ID NO 15982

LENGTH: 439

TYPE: PRT

ORGANISM: Zea mays subsp. mays

FEATURE:

NAME/KEY: misc feature

LOCATION: (1)..(439)

OTHER INFORMATION: Ceres Seq. ID no. 12350006

US-11-096-568A-15982

Query Match 70.8%; Score 34; DB 11; Length 439;
 Best Local Similarity 55.6%; Pred. No. 41;
 Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 AFRDLCIV 9
 |||:|:
 Db 375 FGFRNVCLV 383

RESULT 30
 US-11-096-568A-17183
 ; Sequence 17183, Application US/11096568A
 ; Publication No. US20060048240A1
 ; GENERAL INFORMATION:

APPLICANT: Alexandrov, Nikolai et al.
 TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides

FILE REFERENCE: 2750-1592PUS2

CURRENT APPLICATION NUMBER: US/11/096,568A

CURRENT FILING DATE: 2005-04-01

NUMBER OF SEQ ID NOS: 34471

SEQ ID NO 17183

LENGTH: 439

TYPE: PRT

ORGANISM: Zea mays subsp. mays

FEATURE:

NAME/KEY: misc feature

LOCATION: (1)..(439)

OTHER INFORMATION: Ceres Seq. ID no. 12356350

US-11-096-568A-17183

Query Match 70.8%; Score 34; DB 11; Length 439;
 Best Local Similarity 55.6%; Pred. No. 41;
 Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 AFRDLCIV 9
 |||:|:
 Db 375 FGFRNVCLV 383

RESULT 31
 US-11-096-568A-15981
 ; Sequence 15981, Application US/11096568A
 ; Publication No. US20060048240A1
 ; GENERAL INFORMATION:

APPLICANT: Alexandrov, Nikolai et al.
 TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides

FILE REFERENCE: 2750-1592PUS2

CURRENT APPLICATION NUMBER: US/11/096,568A

CURRENT FILING DATE: 2005-04-01

NUMBER OF SEQ ID NOS: 34471

SEQ ID NO 15981

LENGTH: 462

TYPE: PRT

ORGANISM: Zea mays subsp. mays

FEATURE:

NAME/KEY: misc feature

LOCATION: (1)..(462)

OTHER INFORMATION: Ceres Seq. ID no. 12350005

US-11-096-568A-15981

Query Match 70.8%; Score 34; DB 11; Length 462;
 Best Local Similarity 55.6%; Pred. No. 43;
 Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 AFRDLCIV 9
 |||:|:
 Db 398 FGFRNVCLV 406

RESULT 32
 US-11-096-568A-17182
 ; Sequence 17182, Application US/11096568A
 ; Publication No. US20060048240A1
 ; GENERAL INFORMATION:

APPLICANT: Alexandrov, Nikolai et al.
 TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides

FILE REFERENCE: 2750-1592PUS2

CURRENT APPLICATION NUMBER: US/11/096,568A

CURRENT FILING DATE: 2005-04-01

NUMBER OF SEQ ID NOS: 34471

SEQ ID NO 17182

LENGTH: 470

TYPE: PRT

ORGANISM: Zea mays subsp. mays

FEATURE:

NAME/KEY: misc feature

LOCATION: (1)..(470)

OTHER INFORMATION: Ceres Seq. ID no. 12356349

US-11-096-568A-17182

Query Match 70.8%; Score 34; DB 11; Length 470;
 Best Local Similarity 55.6%; Pred. No. 43;
 Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 AFRDLCIV 9
 |||:|:
 Db 406 FGFRNVCLV 414

RESULT 33
 US-11-096-568A-15980
 ; Sequence 15980, Application US/11096568A
 ; Publication No. US20060048240A1
 ; GENERAL INFORMATION:

APPLICANT: Alexandrov, Nikolai et al.
 TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides

FILE REFERENCE: 2750-1592PUS2

CURRENT APPLICATION NUMBER: US/11/096,568A

CURRENT FILING DATE: 2005-04-01

```

; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 15980
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(480)
; OTHER INFORMATION: Ceres Seq. ID no. 12350004
US-11-096-568A-15980

Query Match          70.8%; Score 34; DB 11; Length 480;
Best Local Similarity 55.6%; Pred. No. 44;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFRDLCTV 9
Db 416 FGFRNVCLV 424

RESULT 34
US-11-096-568A-17181
; Sequence 17181, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; PRIOR FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 17181
; LENGTH: 505
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(505)
; OTHER INFORMATION: Ceres Seq. ID no. 12356348
US-11-096-568A-17181

Query Match          70.8%; Score 34; DB 11; Length 505;
Best Local Similarity 55.6%; Pred. No. 46;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFRDLCTV 9
Db 441 FGFRNVCLV 449

RESULT 35
US-10-530-061-519
; Sequence 519, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 519
; LENGTH: 10
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; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-519

Query Match          68.8%; Score 33; DB 9; Length 10;
Best Local Similarity 66.7%; Pred. No. 1.9;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFRDLCTV 9
Db 1 FAFRDLFFV 9

RESULT 36
US-10-530-061-1660
; Sequence 1660, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1660
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1660

Query Match          68.8%; Score 33; DB 9; Length 15;
Best Local Similarity 66.7%; Pred. No. 2.8;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFRDLCTV 9
Db 4 FAFRDLFFV 12

RESULT 37
US-10-530-061-1661
; Sequence 1661, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1661
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1661
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Query Match 68.8%; Score 33; DB 9; Length 15;
Best Local Similarity 66.7%; Pred. No. 2.8;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFRDLCTV 9
|||:|:|:
DB 2 FAFKDLFV 10

RESULT 38
US-10-530-253-18
; Sequence 18, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 35
US-10-530-253-18

Query Match 68.8%; Score 33; DB 9; Length 149;
Best Local Similarity 77.8%; Pred. No. 23;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 FAFRDLCTV 9
|||:|:|:
DB 45 FACYDLCTV 53

RESULT 39
US-10-530-253-15
; Sequence 15, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 18
US-10-530-253-15

Query Match 68.8%; Score 33; DB 9; Length 158;
Best Local Similarity 66.7%; Pred. No. 25;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFRDLCTV 9
|||:|:|:
DB 47 FAFKDLFV 55

RESULT 40
US-10-965-694-23
; Sequence 23, Application US/10965694
; Publication No. US20050271644A1
; GENERAL INFORMATION:
; APPLICANT: Oldenburg, Johannes
; APPLICANT: Muller-Reibler, Clemens
; APPLICANT: Fregin, Andreas
; APPLICANT: Roost, Simone
; APPLICANT: Stroom, Tim
; TITLE OF INVENTION: VITAMIN K EPOXID RECYCLING POLYPEPTIDE VKORC1, A THERAPEUTIC TARG
; FILE REFERENCE: MBP-025XX
; CURRENT APPLICATION NUMBER: US/10/965,694
; CURRENT FILING DATE: 2004-10-14
; PRIOR APPLICATION NUMBER: US 60/511,041
; PRIOR FILING DATE: 2003-10-14
; NUMBER OF SEQ ID NOS: 94
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 23
; LENGTH: 175
; TYPE: PRT
; ORGANISM: Fugu rubripes
US-10-965-694-23

Query Match 68.8%; Score 33; DB 9; Length 175;
Best Local Similarity 44.4%; Pred. No. 27;
Matches 4; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1 FAFRDLCTV 9
|||:|:|:
DB 132 FVUKDLCTV 140

RESULT 41
US-11-098-686-10210
; Sequence 10210, Application US/11098686
; Publication No. US20060024696A1
; GENERAL INFORMATION:
; APPLICANT: Kabut, Vivek and Gebhart, Connie J.
; TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
; FILE REFERENCE: 09531-128001
; CURRENT APPLICATION NUMBER: US/11/098,686
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31318
; PRIOR FILING DATE: 2003-10-01
; PRIOR APPLICATION NUMBER: US 60/416,395
; PRIOR FILING DATE: 2002-10-04
; NUMBER OF SEQ ID NOS: 11433
; SOFTWARE: FastSeq for windows Version 4.0
; SEQ ID NO 10210
; LENGTH: 214
; TYPE: PRT
; ORGANISM: Lawsonia intracellularis
US-11-098-686-10210

Query Match 68.8%; Score 33; DB 11; Length 214;
Best Local Similarity 53.3%; Pred. No. 33;
Matches 8; Conservative 1; Mismatches 0; Indels 6; Gaps 1;

QY 1 FAFRDLCTV 9
|||:|:|:
DB 107 FAFRDLGINSVECTV 121

RESULT 42
US-10-525-907-44

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Sequence 44, Application US/10525907
; Publication No. US20060068476A1
; GENERAL INFORMATION:
; APPLICANT: Krogger, Burkhard
; APPLICANT: Zeidler, Oskar
; APPLICANT: Kolprogge, Corinna
; APPLICANT: Schröder, Hartwig
; APPLICANT: Halner, Stefan
; TITLE OF INVENTION: Method for Production by Fermentation of Sulphur-Containing Fine
; FILE REFERENCE: 13111-00005-US
; CURRENT APPLICATION NUMBER: US/10/525,907
; CURRENT FILING DATE: 2005-02-25
; PRIOR APPLICATION NUMBER: PCT/EP 2003/009451
; PRIOR FILING DATE: 2003-08-26
; PRIOR APPLICATION NUMBER: DE 102 39 308.7
; PRIOR FILING DATE: 2002-08-27
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 44
; LENGTH: 288
; TYPE: PRT
; ORGANISM: Rhodobacter
; US-10-525-907-44

Query Match      68.8%; Score 33; DB 9; Length 288;
Best Local Similarity 62.5%; Pred. No. 43;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy      1 AFRDLCI 8
Db      179 FRFDACV 186

RESULT 43
US-11-188-298-20322
; Sequence 20322, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 20322
; LENGTH: 295
; TYPE: PRT
; ORGANISM: Buchnera aphidicola str. Bp (Baizongia pistaciae)
; US-11-188-298-20322

Query Match      68.8%; Score 33; DB 11; Length 295;
Best Local Similarity 83.3%; Pred. No. 44;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      3 FRDLCI 8
Db      195 FRDLCV 200

RESULT 44
US-11-096-568A-24125
; Sequence 24125, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
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NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 24125
; LENGTH: 364
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(364)
; OTHER INFORMATION: Ceres Seq. ID no. 12419009
; US-11-096-568A-24125

Query Match      68.8%; Score 33; DB 11; Length 364;
Best Local Similarity 71.4%; Pred. No. 53;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy      2 AFRDLCI 8
Db      255 AFRDFCV 261

RESULT 45
US-11-096-568A-24124
; Sequence 24124, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 24124
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(382)
; OTHER INFORMATION: Ceres Seq. ID no. 12419008
; US-11-096-568A-24124

Query Match      68.8%; Score 33; DB 11; Length 382;
Best Local Similarity 71.4%; Pred. No. 56;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy      2 AFRDLCI 8
Db      273 AFRDFCV 279

RESULT 46
US-11-096-568A-24123
; Sequence 24123, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 24123
; LENGTH: 405
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(405)
; OTHER INFORMATION: Ceres Seq. ID no. 12419007
; US-11-096-568A-24123
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Query Match 68.8%; Score 33; DB 11; Length 405;
Best Local Similarity 71.4%; Pred. No. 59;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 AFRDLCT 8
DB 296 AFRDFCV 302

RESULT 47
US-10-530-061-477
; Sequence 477, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 477
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-477

Query Match 66.7%; Score 32; DB 9; Length 10;
Best Local Similarity 77.8%; Pred. No. 2.9;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 FAFRDLCTV 9
DB 1 FAFRDLTLTV 9

RESULT 48
US-10-530-061-565
; Sequence 565, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 565
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-565

Query Match 66.7%; Score 32; DB 9; Length 10;
Best Local Similarity 75.0%; Pred. No. 2.9;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 AFRDLCTV 9
DB 1 AVKDLCTV 8

RESULT 49
US-10-530-061-1668
; Sequence 1668, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1668
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1668

Query Match 66.7%; Score 32; DB 9; Length 15;
Best Local Similarity 77.8%; Pred. No. 4.3;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 FAFRDLCTV 9
DB 6 FAFRDLTLTV 14

RESULT 50
US-10-530-061-1669
; Sequence 1669, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1669
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1669

Query Match 66.7%; Score 32; DB 9; Length 15;
Best Local Similarity 77.8%; Pred. No. 4.3;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 FAFRDLCTV 9

Db 4 PAFDDTIV 12

Search completed: May 5, 2006, 08:40:42
Job time : 9.4 secs

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OM protein - protein search, using sw model

Run on: May 5, 2006, 02:25:57 ; Search time 20.7 Seconds
(without alignments)
35.946 Million cell updates/sec

Title: US-08-170-344-11

Perfect score: 54

Sequence: 1 KISEXRYHC 9

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Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

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- 3: /cgn2_6/ptodata/1/1aa/H_COMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	54	100.0	20	1	US-08-934-915-44
2	54	100.0	20	1	US-08-934-915-163
3	54	100.0	158	2	US-09-980-523A-2
4	54	100.0	162	1	US-08-316-239B-3
5	54	100.0	162	1	US-08-316-239B-4
6	54	100.0	172	2	US-08-860-165-12
7	54	100.0	172	2	US-08-860-165-14
8	54	100.0	172	2	US-09-359-382-12
9	54	100.0	172	2	US-09-359-382-14
10	54	100.0	243	2	US-09-462-993-1
11	54	100.0	263	2	US-08-860-165-10
12	54	100.0	266	2	US-09-359-382-10
13	54	100.0	266	2	US-09-367-309A-1
14	54	100.0	273	2	US-09-485-885-4
15	54	100.0	292	2	US-09-485-885-10
16	54	100.0	371	2	US-09-485-885-6
17	54	100.0	390	2	US-09-485-885-14
18	49	90.7	9	2	US-08-159-339A-76
19	49	90.7	9	2	US-09-601-729-277
20	49	90.7	29	2	US-09-980-523A-8
21	49	90.7	151	2	US-09-701-080C-18
22	49	90.7	182	1	US-08-117-083-10
23	45	83.3	9	2	US-08-159-339A-234
24	45	83.3	10	2	US-08-159-339A-75
25	41	75.9	370	2	US-09-454-071-6
26	40	74.1	9	2	US-08-159-339A-134
27	38	70.4	28	2	US-09-149-476-640

28	37	68.5	124	2	US-09-270-767-33888
29	36	66.7	169	2	US-09-489-039A-13995
30	36	66.7	228	2	US-09-134-000C-3467
31	36	66.7	478	2	US-09-328-352-7708
32	36	66.7	1064	2	US-09-926-820-1
33	36	66.7	2254	1	US-08-286-819A-28
34	36	66.7	2254	1	US-08-980-357-28
35	36	66.7	2254	2	US-09-357-375-28
36	35	64.8	14	2	US-09-051-624A-3
37	35	64.8	14	2	US-09-857-815B-58
38	35	64.8	36	2	US-09-857-815B-60
39	35	64.8	45	2	US-08-899-437-11
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41	35	64.8	46	2	US-08-915-096A-12
42	35	64.8	46	2	US-09-553-769-10
43	35	64.8	46	2	US-09-857-815B-4
44	35	64.8	47	2	US-09-857-815B-3
45	35	64.8	47	2	US-09-857-815B-12
46	35	64.8	48	1	US-08-465-794-3
47	35	64.8	48	2	US-09-049-813-3
48	35	64.8	48	2	US-09-857-815B-11
49	35	64.8	48	2	US-09-857-815B-14
50	35	64.8	48	2	US-09-857-815B-45
51	35	64.8	49	2	US-09-097-681-15
52	35	64.8	49	2	US-09-857-815B-10
53	35	64.8	49	2	US-09-857-815B-13
54	35	64.8	53	2	US-09-857-815B-38
55	35	64.8	53	2	US-09-857-815B-44
56	35	64.8	53	2	US-09-857-815B-63
57	35	64.8	60	1	US-08-465-794-14
58	35	64.8	60	2	US-09-049-813-14
59	35	64.8	75	2	US-09-857-815B-37
60	35	64.8	75	2	US-09-857-815B-61
61	35	64.8	76	2	US-09-857-815B-1
62	35	64.8	77	2	US-09-857-815B-6
63	35	64.8	78	2	US-09-857-815B-7
64	35	64.8	78	2	US-09-857-815B-9
65	35	64.8	78	2	US-09-857-815B-5
66	35	64.8	79	2	US-09-857-815B-8
67	35	64.8	80	2	US-08-663-191A-1
68	35	64.8	80	2	US-08-663-191A-3
69	35	64.8	80	2	US-09-051-624A-2
70	35	64.8	80	2	US-09-051-624A-2
71	35	64.8	80	2	US-09-554-119A-2
72	35	64.8	80	2	US-10-138-158-1
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80	35	64.8	178	2	US-09-049-813-18
81	35	64.8	178	2	US-08-663-191A-4
82	35	64.8	178	2	US-09-543-681A-4849
83	35	64.8	261	2	US-09-270-767-42885
84	35	64.8	265	2	US-09-000-094-20
85	35	64.8	368	2	US-10-011-749-20
86	35	64.8	375	2	US-09-000-094-22
87	35	64.8	375	2	US-10-011-749-22
88	35	64.8	375	2	US-09-000-094-24
89	35	64.8	465	2	US-10-011-749-24
90	35	64.8	465	2	US-09-324-024-31
91	35	64.8	686	4	PCT-US94-079902-31
92	35	64.8	1587	2	US-09-000-094-46
93	35	64.8	1587	2	US-10-011-749-46
94	35	64.8	1587	2	US-09-270-767-36800
95	34	63.0	75	2	US-09-270-767-52117
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101	63.0	420	2	US-10-070-634-12	Sequence 12, Appl	174	32	59.3	816	2	US-09-273-565-37	Sequence 37, Appl
102	63.0	439	2	US-09-328-352-4576	Sequence 4576, Ap	175	32	59.3	816	2	US-09-555-538-37	Sequence 37, Appl
103	63.0	463	1	US-08-142-435A-2	Sequence 2, Appl1	176	32	59.3	816	2	US-09-661-468-37	Sequence 37, Appl
104	63.0	463	1	US-08-869-477-2	Sequence 2, Appl1	177	32	59.3	816	2	US-09-976-185-37	Sequence 37, Appl
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106	63.0	573	2	US-09-270-767-45753	Sequence 45753, A	179	32	59.3	1195	2	US-09-538-092-517	Sequence 517, A
107	61.1	51	1	US-08-464-517-12	Sequence 12, Appl	180	32	59.3	1327	2	US-10-037-417-70	Sequence 70, Appl
108	61.1	51	1	US-08-246-361A-12	Sequence 12, Appl	181	32	59.3	1422	2	US-08-469-260A-82	Sequence 82, Appl
109	61.1	51	1	US-08-463-772-12	Sequence 12, Appl	182	32	59.3	1422	2	US-08-468-446-82	Sequence 82, Appl
110	61.1	51	4	PCR-US93-05000-12	Sequence 12, Appl	183	32	59.3	1422	2	US-08-467-344A-82	Sequence 82, Appl
111	61.1	62	2	US-10-108-311-3	Sequence 3, Appl1	184	32	59.3	1422	2	US-08-424-550B-82	Sequence 82, Appl
112	61.1	79	2	US-09-732-210-348	Sequence 348, App	185	31.5	58.3	105	2	US-09-248-796A-14228	Sequence 14228, A
113	61.1	133	2	US-09-710-279-1962	Sequence 1962, Ap	186	31	57.4	22	2	US-09-205-258-895	Sequence 895, App
114	61.1	198	2	US-09-248-796A-21732	Sequence 21732, A	187	31	57.4	22	2	US-10-004-860-895	Sequence 895, App
115	61.1	263	2	US-09-653-813-4	Sequence 4, Appl1	188	31	57.4	25	2	US-09-201-227A-32	Sequence 32, Appl
116	61.1	263	2	US-09-653-813-6	Sequence 6, Appl1	189	31	57.4	25	2	US-09-084-303B-228	Sequence 32, App
117	61.1	278	2	US-09-543-681A-5024	Sequence 5024, Ap	190	31	57.4	60	2	US-09-270-767-36963	Sequence 36963, A
118	61.1	301	2	US-09-248-796A-23478	Sequence 23478, A	191	31	57.4	60	2	US-09-270-767-52180	Sequence 52180, A
119	61.1	500	2	US-08-158-735A-2	Sequence 2, Appl1	192	31	57.4	66	2	US-09-248-796A-25247	Sequence 25247, A
120	61.1	532	1	US-08-481-337A-6	Sequence 6, Appl1	193	31	57.4	70	2	US-09-252-991A-29915	Sequence 29915, A
121	61.1	532	1	US-09-382-256-6	Sequence 6, Appl1	194	31	57.4	70	2	US-09-543-681A-5998	Sequence 5998, Ap
122	61.1	532	2	US-09-382-256-14	Sequence 14, Appl	195	31	57.4	74	2	US-08-936-165A-456	Sequence 456, App
123	61.1	532	2	US-08-158-735A-4	Sequence 4, Appl1	196	31	57.4	80	2	US-09-732-210-342	Sequence 342, App
124	61.1	532	2	US-09-395-115-6	Sequence 6, Appl1	197	31	57.4	86	2	US-09-621-976-5167	Sequence 5167, Ap
125	61.1	532	2	US-09-395-115-14	Sequence 14, Appl	198	31	57.4	86	2	US-09-489-039A-8970	Sequence 8970, Ap
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127	61.1	532	2	US-08-334-179A-12	Sequence 12, Appl	200	31	57.4	95	2	US-09-270-767-32716	Sequence 32716, A
128	61.1	532	2	US-08-436-265-6	Sequence 6, Appl1	201	31	57.4	112	2	US-09-107-532A-6163	Sequence 6163, Ap
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131	61.1	532	2	US-09-679-187-14	Sequence 14, Appl	204	31	57.4	112	2	US-09-248-796A-17853	Sequence 17853, A
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134	61.1	532	2	US-09-267-963D-6	Sequence 6, Appl1	207	31	57.4	130	2	US-08-328-799-527	Sequence 37, Appl
135	61.1	532	2	US-09-267-963D-14	Sequence 14, Appl	208	31	57.4	143	2	US-09-583-110-4238	Sequence 4238, Ap
136	61.1	532	4	US-09-949-016-6475	Sequence 6475, Ap	209	31	57.4	145	2	US-09-107-532A-7085	Sequence 7085, Ap
137	61.1	532	4	PCR-US94-10080-2	Sequence 2, Appl1	210	31	57.4	203	2	US-09-252-991A-26436	Sequence 26436, A
138	61.1	532	4	PCR-US95-05457-6	Sequence 6, Appl1	211	31	57.4	212	2	US-09-949-016-8463	Sequence 8463, Ap
139	61.1	533	2	US-09-949-016-7785	Sequence 7785, Ap	212	31	57.4	250	1	US-08-162-475A-4	Sequence 4, Appl1
140	61.1	567	2	US-09-843-378-13	Sequence 13, Appl	213	31	57.4	253	1	US-08-162-475A-2	Sequence 2, Appl1
141	61.1	604	2	US-09-134-000C-5256	Sequence 5256, Ap	214	31	57.4	253	1	US-08-358-111-10	Sequence 10, Appl
142	61.1	9	2	US-08-159-339A-247	Sequence 247, App	215	31	57.4	253	2	US-09-090-947-10	Sequence 10, Appl
143	61.1	95	2	US-09-270-767-34319	Sequence 34319, A	216	31	57.4	254	1	US-08-475-447-1	Sequence 1, Appl1
144	61.1	95	2	US-09-270-767-49536	Sequence 49536, A	217	31	57.4	254	1	US-07-842-165-1	Sequence 1, Appl1
145	61.1	102	1	US-08-750-856A-16	Sequence 16, Appl	218	31	57.4	254	2	US-08-448-398-3	Sequence 3, Appl1
146	61.1	102	1	US-08-750-856A-17	Sequence 17, Appl	219	31	57.4	254	2	US-09-586-106D-113	Sequence 113, App
147	61.1	102	1	US-08-750-856A-18	Sequence 18, Appl	220	31	57.4	254	2	US-10-799-870-113	Sequence 113, App
148	61.1	102	1	US-08-750-856A-19	Sequence 19, Appl	221	31	57.4	270	2	US-09-495-406-25	Sequence 25, Appl
149	61.1	127	2	US-09-270-767-40134	Sequence 40134, A	222	31	57.4	270	2	US-09-816-028A-39	Sequence 39, Appl
150	61.1	127	2	US-09-270-767-55350	Sequence 55350, A	223	31	57.4	270	2	US-10-303-162-39	Sequence 39, Appl
151	61.1	149	2	US-09-949-016-9506	Sequence 9506, Ap	224	31	57.4	270	2	US-10-303-118-39	Sequence 39, Appl
152	61.1	164	2	US-09-134-001C-5317	Sequence 5317, Ap	225	31	57.4	270	2	US-10-303-118-39	Sequence 39, Appl
153	61.1	182	2	US-09-328-352-7249	Sequence 7249, Ap	226	31	57.4	281	2	US-09-522-714-2	Sequence 2, Appl1
154	61.1	253	1	US-08-162-475A-5	Sequence 5, Appl1	227	31	57.4	281	2	US-09-522-714-2	Sequence 2, Appl1
155	61.1	253	2	US-07-791-931-9	Sequence 9, Appl1	228	31	57.4	283	2	US-09-205-268-904	Sequence 904, App
156	61.1	253	2	US-10-300-81B-18	Sequence 18, Appl	229	31	57.4	283	2	US-10-004-860-904	Sequence 904, App
157	61.1	253	2	US-09-328-352-6852	Sequence 6852, Ap	230	31	57.4	284	2	US-09-522-689A-2	Sequence 2, Appl1
158	61.1	263	2	US-08-311-731A-174	Sequence 174, App	231	31	57.4	284	2	US-09-949-016-6967	Sequence 6967, Ap
159	61.1	271	2	US-09-248-796A-19265	Sequence 19265, A	232	31	57.4	290	2	US-09-949-016-11587	Sequence 11587, A
160	61.1	280	2	US-09-489-039A-7566	Sequence 7566, Ap	233	31	57.4	291	1	US-08-358-111-4	Sequence 4, Appl1
161	61.1	312	1	US-09-014-969-17	Sequence 17, Appl	234	31	57.4	291	1	US-09-090-947-4	Sequence 4, Appl1
162	61.1	421	2	US-09-252-991A-17417	Sequence 17417, A	235	31	57.4	302	1	US-08-475-447-6	Sequence 6, Appl1
163	61.1	437	2	US-09-328-352-5102	Sequence 5102, Ap	236	31	57.4	302	1	US-08-475-447-6	Sequence 6, Appl1
164	61.1	452	2	US-09-270-767-60765	Sequence 60765, A	237	31	57.4	310	1	US-07-704-288C-6	Sequence 6, Appl1
165	61.1	482	2	US-09-538-092-454	Sequence 454, App	238	31	57.4	310	2	US-08-379-259-6	Sequence 6, Appl1
166	61.1	551	2	US-09-489-039A-9510	Sequence 9510, Ap	239	31	57.4	310	2	US-07-791-931-6	Sequence 6, Appl1
167	61.1	617	2	US-09-107-532A-6828	Sequence 6828, Ap	240	31	57.4	314	1	US-07-704-288C-7	Sequence 7, Appl1
168	61.1	726	2	US-09-392-714-21	Sequence 21, Appl	241	31	57.4	314	1	US-08-379-259-7	Sequence 7, Appl1
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171	61.1	755	2	US-09-270-767-45272	Sequence 45272, A	244	31	57.4	324	2	US-08-229-050-11	Sequence 11, Appl
172	61.1	816	1	US-08-820-170A-37	Sequence 37, Appl	245	31	57.4	324	2	US-08-801-563-11	Sequence 11, Appl
173	61.1	816	2	US-09-055-699-37	Sequence 37, Appl	246	31	57.4	326	2	US-07-791-931-5	Sequence 5, Appl1

247	31	57.4	329	1	US-08-475-427-13	Sequence 13, Appl	330	30	55.6	139	2	US-08-706-945D-129	Sequence 129, App
248	31	57.4	329	1	US-07-842-165-13	Sequence 13, Appl	321	30	55.6	152	2	US-09-270-767-31847	Sequence 31847, A
249	31	57.4	329	1	US-10-300-819B-17	Sequence 17, Appl	322	30	55.6	152	2	US-09-270-767-47064	Sequence 47064, A
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251	31	57.4	330	1	US-08-379-259-8	Sequence 8, Appl	324	30	55.6	153	1	US-08-465-982-52	Sequence 52, Appl
252	31	57.4	330	1	US-09-902-540-12410	Sequence 12410, A	325	30	55.6	153	1	US-08-219-237B-4	Sequence 4, Appl
253	31	57.4	334	2	US-09-417-485D-45	Sequence 45, Appl	326	30	55.6	153	2	US-08-477-347-12	Sequence 12, Appl
254	31	57.4	360	2	US-09-543-681A-7431	Sequence 7431, Ap	327	30	55.6	153	2	US-08-476-862-3	Sequence 3, Appl
255	31	57.4	370	2	US-09-134-001C-3769	Sequence 3769, Ap	328	30	55.6	153	2	US-08-468-560C-4	Sequence 4, Appl
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258	31	57.4	467	2	US-10-323-939-2	Sequence 2, Appl	331	30	55.6	153	2	US-09-884-987-4	Sequence 4, Appl
259	31	57.4	546	2	US-09-252-991A-19089	Sequence 19089, A	332	30	55.6	154	1	US-08-823-637A-10	Sequence 10, Appl
260	31	57.4	642	2	US-09-543-681A-7169	Sequence 7169, Ap	333	30	55.6	154	2	US-08-828-663A-12	Sequence 12, Appl
261	31	57.4	709	4	PCR-US92-00731-13	Sequence 13, Appl	334	30	55.6	154	2	US-09-522-323-53	Sequence 53, Appl
262	31	57.4	727	2	US-09-543-681A-6690	Sequence 6690, Ap	335	30	55.6	157	1	US-08-050-319B-50	Sequence 50, Appl
263	31	57.4	786	2	US-09-543-681A-6379	Sequence 6379, Ap	336	30	55.6	157	1	US-08-465-982-50	Sequence 50, Appl
264	31	57.4	891	2	US-10-226-629A-16	Sequence 16, Appl	337	30	55.6	161	2	US-09-326-394-2	Sequence 2, Appl
265	31	57.4	892	2	US-10-226-629A-15	Sequence 15, Appl	338	30	55.6	167	1	US-08-050-319B-57	Sequence 57, Appl
266	31	57.4	944	2	US-09-543-681A-4864	Sequence 4864, Ap	339	30	55.6	167	1	US-08-465-982-2	Sequence 2, Appl
267	31	57.4	955	2	US-09-543-681A-5755	Sequence 5755, Ap	340	30	55.6	167	1	US-08-465-982-57	Sequence 57, Appl
268	31	57.4	988	2	US-08-851-843A-69	Sequence 69, Appl	341	30	55.6	196	2	US-09-248-796A-19761	Sequence 19761, A
269	31	57.4	988	2	US-08-974-549A-112	Sequence 112, App	342	30	55.6	197	2	US-08-828-633A-21	Sequence 21, Appl
270	31	57.4	988	2	US-08-854-050-69	Sequence 69, Appl	343	30	55.6	198	2	US-08-842-306B-2	Sequence 2, Appl
271	31	57.4	988	2	US-09-430-323-69	Sequence 69, Appl	344	30	55.6	198	2	US-08-838-973B-2	Sequence 2, Appl
272	31	57.4	988	2	US-08-912-951-112	Sequence 112, App	345	30	55.6	198	2	US-08-771-212A-2	Sequence 2, Appl
273	31	57.4	988	2	US-09-402-181B-112	Sequence 112, App	346	30	55.6	198	2	US-09-945-249-2	Sequence 2, Appl
274	31	57.4	988	2	US-09-721-456-112	Sequence 112, App	347	30	55.6	198	2	US-09-945-249-2	Sequence 2, Appl
275	31	57.4	988	2	US-09-766-253-69	Sequence 69, Appl	348	30	55.6	198	2	US-09-041-990-2	Sequence 2, Appl
276	31	57.4	988	2	US-10-054-295-69	Sequence 69, Appl	349	30	55.6	199	1	US-09-792-024-122	Sequence 122, App
277	31	57.4	988	2	US-09-438-486A-69	Sequence 69, Appl	350	30	55.6	199	1	US-08-050-319B-48	Sequence 48, Appl
278	31	57.4	1068	2	US-08-390-874C-11	Sequence 11, Appl	351	30	55.6	199	1	US-08-465-982-48	Sequence 48, Appl
279	31	57.4	1068	2	US-09-265-772-11	Sequence 11, Appl	352	30	55.6	199	2	US-08-737-248-5	Sequence 5, Appl
280	31	57.4	1068	2	US-09-538-092-111	Sequence 111, Ap	353	30	55.6	201	2	US-09-248-796A-19762	Sequence 19762, A
281	31	57.4	1068	2	US-09-487-558B-242	Sequence 242, App	354	30	55.6	214	2	US-09-598-401C-70	Sequence 20489, A
282	31	57.4	1069	1	US-08-162-081B-37	Sequence 37, Appl	355	30	55.6	221	2	US-09-599-360B-104	Sequence 104, App
283	31	57.4	1069	1	US-08-780-872-37	Sequence 37, Appl	356	30	55.6	202	1	US-08-948-616-11	Sequence 11, Appl
284	31	57.4	1069	2	US-09-085-957-37	Sequence 37, Appl	357	30	55.6	202	2	US-09-193-510-11	Sequence 11, Appl
285	31	57.4	1080	1	US-08-162-081B-36	Sequence 36, Appl	358	30	55.6	202	2	US-09-368-402-11	Sequence 26891, A
286	31	57.4	1080	1	US-08-780-872-36	Sequence 36, Appl	359	30	55.6	213	2	US-09-248-796A-16891	Sequence 1, Appl
287	31	57.4	1080	2	US-09-085-957-36	Sequence 36, Appl	360	30	55.6	213	2	US-10-125-062-1	Sequence 1, Appl
288	31	57.4	1138	1	US-07-973-320-4	Sequence 2, Appl	361	30	55.6	221	2	US-09-598-401C-70	Sequence 104, App
289	31	57.4	1138	1	US-07-973-320-4	Sequence 2, Appl	362	30	55.6	221	2	US-09-599-360B-104	Sequence 104, App
290	31	57.4	1199	2	US-09-208-742-2	Sequence 2, Appl	363	30	55.6	221	2	US-09-540-236-1926	Sequence 1926, Ap
291	31	57.4	1199	2	US-09-332-295-4	Sequence 4, Appl	364	30	55.6	249	2	US-09-586-106D-73	Sequence 73, Appl
292	31	57.4	1199	2	US-09-709-979-4	Sequence 4, Appl	365	30	55.6	249	2	US-10-799-870-73	Sequence 73, Appl
293	31	57.4	1199	2	US-10-147-268-4	Sequence 4, Appl	366	30	55.6	254	2	US-09-586-106D-59	Sequence 59, Appl
294	31	57.4	2108	7	US-09-731-242A-44	Sequence 44, Appl	367	30	55.6	254	2	US-09-586-106D-61	Sequence 61, Appl
295	30	55.6	14	2	US-09-122-315C-14	Sequence 14, Appl	368	30	55.6	254	2	US-09-586-106D-75	Sequence 75, Appl
296	30	55.6	14	2	US-09-360-376-2	Sequence 2, Appl	369	30	55.6	254	2	US-09-586-106D-79	Sequence 79, Appl
297	30	55.6	15	1	US-08-221-583-9	Sequence 9, Appl	370	30	55.6	254	2	US-10-799-870-75	Sequence 75, Appl
298	30	55.6	15	1	US-08-221-583-9	Sequence 9, Appl	371	30	55.6	254	2	US-10-799-870-75	Sequence 75, Appl
299	30	55.6	15	1	US-08-221-583-9	Sequence 9, Appl	372	30	55.6	254	2	US-10-799-870-75	Sequence 75, Appl
300	30	55.6	15	4	PCR-US95-04018-10	Sequence 10, Appl	373	30	55.6	254	2	US-10-799-870-75	Sequence 75, Appl
301	30	55.6	15	4	PCT-US95-04018-9	Sequence 9, Appl	374	30	55.6	254	2	US-10-799-870-75	Sequence 75, Appl
302	30	55.6	41	1	US-08-050-319B-36	Sequence 36, Appl	375	30	55.6	254	2	US-10-799-870-75	Sequence 75, Appl
303	30	55.6	41	1	US-08-465-982-36	Sequence 36, Appl	376	30	55.6	256	2	US-08-804-166-2	Sequence 89, Appl
304	30	55.6	62	2	US-08-904-446A-17	Sequence 17, Appl	377	30	55.6	256	2	US-08-910-991-2	Sequence 2, Appl
305	30	55.6	62	2	US-09-513-999C-7714	Sequence 10421, A	378	30	55.6	256	2	US-09-756-186-2	Sequence 2, Appl
306	30	55.6	66	2	US-09-489-039A-10421	Sequence 16357, A	379	30	55.6	260	2	US-09-586-106D-83	Sequence 83, Appl
307	30	55.6	70	2	US-09-902-540-16355	Sequence 22972, A	380	30	55.6	260	2	US-10-799-870-83	Sequence 83, Appl
308	30	55.6	71	2	US-09-248-796A-22972	Sequence 1, Appl	381	30	55.6	266	2	US-09-248-796A-21194	Sequence 21194, A
309	30	55.6	74	2	US-08-866-545-1	Sequence 1, Appl	382	30	55.6	271	2	US-09-666-965-141	Sequence 141, App
310	30	55.6	74	2	US-09-627-775-1	Sequence 24909, A	383	30	55.6	280	2	US-08-974-122-46	Sequence 46, Appl
311	30	55.6	98	2	US-09-248-796A-24909	Sequence 3086, Ap	384	30	55.6	280	2	US-08-795-447A-46	Sequence 46, Appl
312	30	55.6	101	2	US-09-583-110-2904	Sequence 2064, Ap	385	30	55.6	280	2	US-08-974-186-46	Sequence 46, Appl
313	30	55.6	110	2	US-10-104-047-3086	Sequence 4, Appl	386	30	55.6	280	2	US-08-795-446B-46	Sequence 46, Appl
314	30	55.6	124	1	US-08-050-319B-4	Sequence 4, Appl	387	30	55.6	280	2	US-08-706-945D-112	Sequence 132, App
315	30	55.6	124	1	US-08-465-982-4	Sequence 4, Appl	388	30	55.6	280	2	US-08-577-788C-46	Sequence 54, Appl
316	30	55.6	131	2	US-09-198-452A-42	Sequence 42, Appl	389	30	55.6	282	2	US-09-360-376-54	Sequence 3, Appl
317	30	55.6	136	2	US-09-107-433-4740	Sequence 4740, Ap	390	30	55.6	283	2	US-08-992-035A-3	Sequence 53, Appl
318	30	55.6	138	2	US-09-270-767-32892	Sequence 32892, A	391	30	55.6	283	2	US-09-360-376-53	Sequence 53, Appl
319	30	55.6	138	2	US-09-270-767-48109	Sequence 48109, A	392	30	55.6	283	2	US-09-360-376-53	Sequence 53, Appl

393	30	55.6	285	2	US-08-804-166-6	Sequence 6, Appli	466	30	55.6	485	1	US-08-749-391-2	Sequence 2, Appli
394	30	55.6	285	2	US-08-910-991-6	Sequence 6, Appli	467	30	55.6	485	2	US-09-390-200-2	Sequence 2, Appli
395	30	55.6	285	2	US-08-992-035A-1	Sequence 1, Appli	468	30	55.6	509	2	US-09-270-767-43848	Sequence 41848, A
396	30	55.6	285	2	US-09-756-186-6	Sequence 6, Appli	469	30	55.6	515	2	US-09-487-558B-384	Sequence 384, App
397	30	55.6	290	2	US-09-710-279-3024	Sequence 3024, Ap	470	30	55.6	519	2	US-09-248-796A-20852	Sequence 20852, A
398	30	55.6	290	2	US-09-710-279-3252	Sequence 3252, Ap	471	30	55.6	563	2	US-09-949-016-8277	Sequence 8277, Ap
399	30	55.6	295	2	US-09-134-001C-3777	Sequence 3777, Ap	472	30	55.6	580	2	US-09-949-016-6405	Sequence 6405, Ap
400	30	55.6	301	2	US-09-248-796A-26140	Sequence 26140, A	473	30	55.6	593	2	US-09-248-796A-14472	Sequence 14472, A
401	30	55.6	307	2	US-08-804-166-4	Sequence 4, Appli	474	30	55.6	594	2	US-09-468-872-2	Sequence 2, Appli
402	30	55.6	307	2	US-08-910-991-4	Sequence 4, Appli	475	30	55.6	605	2	US-09-328-352-7890	Sequence 7890, Ap
403	30	55.6	307	2	US-09-756-186-4	Sequence 4, Appli	476	30	55.6	610	2	US-09-949-016-9964	Sequence 9964, Ap
404	30	55.6	315	2	US-09-438-185A-26	Sequence 26, Appl	477	30	55.6	618	2	US-09-134-001C-4039	Sequence 4039, Ap
405	30	55.6	319	2	US-09-248-796A-17358	Sequence 17358, A	478	30	55.6	624	2	US-09-248-796A-20093	Sequence 20093, A
406	30	55.6	325	2	US-09-605-703B-2166	Sequence 2166, Ap	479	30	55.6	704	2	US-09-409-180A-1	Sequence 1, Appli
407	30	55.6	329	2	US-09-489-039A-9402	Sequence 9402, Ap	480	30	55.6	741	2	US-09-436-699C-22	Sequence 22, Appl
408	30	55.6	336	2	US-08-804-166-8	Sequence 8, Appli	481	30	55.6	802	2	US-10-012-211A-260	Sequence 260, App
409	30	55.6	336	2	US-08-910-991-8	Sequence 8, Appli	482	30	55.6	802	2	US-10-015-369A-260	Sequence 260, App
410	30	55.6	336	2	US-09-756-186-8	Sequence 8, Appli	483	30	55.6	802	2	US-10-006-768A-260	Sequence 260, App
411	30	55.6	348	2	US-09-540-236-3381	Sequence 3381, Ap	484	30	55.6	802	2	US-10-015-671A-260	Sequence 260, App
412	30	55.6	359	2	US-09-134-000C-4630	Sequence 4630, Ap	485	30	55.6	802	2	US-10-015-393A-260	Sequence 260, App
413	30	55.6	410	2	US-09-252-991A-30570	Sequence 30570, A	486	30	55.6	802	2	US-10-011-833A-260	Sequence 260, App
414	30	55.6	411	2	US-09-491-577-66	Sequence 66, Appl	487	30	55.6	802	2	US-10-006-041A-260	Sequence 260, App
415	30	55.6	412	2	US-09-270-767-43247	Sequence 43247, A	488	30	55.6	802	2	US-10-012-064A-260	Sequence 260, App
416	30	55.6	420	2	US-10-104-047-3015	Sequence 3015, Ap	489	30	55.6	909	2	US-09-013-895A-4	Sequence 4, Appli
417	30	55.6	426	2	US-08-747-562-37	Sequence 37, Appl	490	30	55.6	909	2	US-09-448-868-4	Sequence 4, Appli
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419	30	55.6	437	2	US-09-830-189C-2	Sequence 2, Appli	492	30	55.6	1123	2	US-10-037-417-71	Sequence 71, Appl
420	30	55.6	437	2	US-09-991-181-355	Sequence 355, App	493	30	55.6	1531	1	US-08-141-893-2	Sequence 2, Appli
421	30	55.6	437	2	US-09-990-444-355	Sequence 355, App	494	30	55.6	1531	1	US-08-463-092B-2	Sequence 2, Appli
422	30	55.6	437	2	US-10-033-301-16	Sequence 16, Appl	495	30	55.6	1531	1	US-08-463-092B-4	Sequence 4, Appli
423	30	55.6	437	2	US-09-997-333-355	Sequence 355, App	496	30	55.6	1531	1	US-08-463-092B-4	Sequence 4, Appli
424	30	55.6	437	2	US-09-992-598-355	Sequence 355, App	497	30	55.6	1531	1	US-08-462-109A-2	Sequence 2, Appli
425	30	55.6	442	2	US-09-270-767-59249	Sequence 59249, A	498	30	55.6	1531	1	US-08-462-109A-2	Sequence 4, Appli
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427	30	55.6	453	2	US-09-086-483A-5	Sequence 5, Appli	500	30	55.6	1531	1	US-08-460-907B-4	Sequence 4, Appli
428	30	55.6	453	2	US-09-580-212-5	Sequence 5, Appli	501	30	55.6	1531	2	US-08-463-179A-2	Sequence 2, Appli
429	30	55.6	453	2	US-09-769-402-5	Sequence 5, Appli	502	30	55.6	1531	2	US-08-463-179A-4	Sequence 4, Appli
430	30	55.6	455	1	US-08-050-319B-25	Sequence 25, Appl	503	30	55.6	1531	2	US-08-461-384B-2	Sequence 2, Appli
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432	30	55.6	455	1	US-08-837-941-2	Sequence 2, Appli	505	30	55.6	1531	2	US-08-407-207A-2	Sequence 2, Appli
433	30	55.6	455	1	US-08-126-016-2	Sequence 2, Appli	506	30	55.6	1724	1	US-09-647-140B-19	Sequence 19, Appl
434	30	55.6	455	1	US-08-465-982-25	Sequence 25, Appl	507	30	55.6	1724	1	US-08-477-451-15	Sequence 15, Appl
435	30	55.6	455	2	US-08-815-469-5	Sequence 5, Appli	508	29.5	54.6	476	2	US-09-561-756-27	Sequence 27, Appl
436	30	55.6	455	2	US-09-006-353A-3	Sequence 3, Appli	509	29.5	54.6	476	2	US-09-227-721-27	Sequence 27, Appl
437	30	55.6	455	2	US-09-527-235A-5	Sequence 5, Appli	510	29.5	54.6	476	2	US-09-954-697-27	Sequence 27, Appl
438	30	55.6	455	2	US-08-054-970-2	Sequence 2, Appli	511	29.5	54.6	496	1	US-08-665-220-4	Sequence 4, Appli
439	30	55.6	455	2	US-09-565-918-4	Sequence 4, Appli	512	29.5	54.6	496	2	US-09-291-692-4	Sequence 4, Appli
440	30	55.6	455	2	US-09-573-986-3	Sequence 3, Appli	513	29.5	54.6	496	2	US-09-952-768-4	Sequence 4, Appli
441	30	55.6	455	2	US-09-027-287-3	Sequence 3, Appli	514	29.5	54.6	496	2	US-10-668-955-4	Sequence 4, Appli
442	30	55.6	455	2	US-09-252-656B-3	Sequence 3, Appli	515	29.5	54.6	505	2	US-09-949-016-11473	Sequence 11473, A
443	30	55.6	455	2	US-08-406-824A-4	Sequence 4, Appli	516	29	53.7	15	1	US-08-159-339A-88	Sequence 88, Appl
444	30	55.6	455	2	US-09-523-323-3	Sequence 3, Appli	517	29	53.7	15	1	US-08-221-583-11	Sequence 11, Appl
445	30	55.6	455	2	US-09-756-854-5	Sequence 5, Appli	518	29	53.7	15	4	PCT-US95-04018-11	Sequence 11, Appl
446	30	55.6	455	2	US-09-583-110-3993	Sequence 3993, Ap	519	29	53.7	20	1	US-08-700-442A-12	Sequence 12, Appl
447	30	55.6	455	2	US-09-557-908-5	Sequence 5, Appli	520	29	53.7	20	2	US-09-258-934-17	Sequence 17, Appl
448	30	55.6	455	2	US-09-874-138-3	Sequence 3, Appli	521	29	53.7	20	2	US-08-831-028-12	Sequence 12, Appl
449	30	55.6	455	2	US-09-333-966-5	Sequence 5, Appli	522	29	53.7	20	2	US-09-619-283B-57	Sequence 57, Appl
450	30	55.6	455	2	US-09-565-009B-3	Sequence 3, Appli	523	29	53.7	20	2	US-10-328-135-57	Sequence 57, Appl
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452	30	55.6	455	2	US-10-041-574-5	Sequence 5, Appli	525	29	53.7	25	2	US-09-258-934-40	Sequence 40, Appl
453	30	55.6	455	2	US-09-095-094-5	Sequence 5, Appli	526	29	53.7	25	2	US-09-619-283B-40	Sequence 40, Appl
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456	30	55.6	460	2	US-09-949-016-6663	Sequence 6663, Ap	529	29	53.7	32	2	US-08-166-768-4	Sequence 4, Appli
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459	30	55.6	467	2	US-09-361-443-2	Sequence 2, Appli	532	29	53.7	61	1	US-08-248-839C-79	Sequence 79, Appl
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461	30	55.6	469	2	US-09-438-185A-745	Sequence 745, App	534	29	53.7	61	2	US-09-640-211A-2342	Sequence 2342, Ap
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463	30	55.6	478	2	US-09-438-185A-872	Sequence 872, App	536	29	53.7	66	2	US-09-248-796A-21302	Sequence 21302, A
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465	30	55.6	484	2	US-09-826-313-32	Sequence 32, Appl	538	29	53.7	70	2		

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540	29	53.7	75	2	US-09-248-796A-22612	Sequence 22612, A	613	29	53.7	235	2	US-09-978-248A-8	Sequence 8, Appl
541	29	53.7	78	2	US-09-732-210-338	Sequence 338, App	614	29	53.7	245	2	US-08-468-260A-42	Sequence 42, Appl
542	29	53.7	78	2	US-09-270-767-37247	Sequence 37247, A	615	29	53.7	245	2	US-08-468-446-42	Sequence 42, Appl
543	29	53.7	78	2	US-09-770-767-52464	Sequence 52464, A	616	29	53.7	245	2	US-08-467-344A-42	Sequence 42, Appl
544	29	53.7	79	2	US-09-732-210-343	Sequence 343, App	617	29	53.7	245	2	US-08-424-550B-42	Sequence 42, Appl
545	29	53.7	79	2	US-09-732-210-345	Sequence 345, App	618	29	53.7	246	2	US-09-438-165A-544	Sequence 544, App
546	29	53.7	79	2	US-09-732-210-347	Sequence 347, App	619	29	53.7	250	2	US-09-252-991A-19568	Sequence 19568, A
547	29	53.7	79	2	US-09-732-210-352	Sequence 352, App	620	29	53.7	252	2	US-09-522-714A-20	Sequence 20, Appl
548	29	53.7	80	1	US-08-485-455D-69	Sequence 69, Appl	621	29	53.7	254	2	US-09-586-166D-81	Sequence 81, Appl
549	29	53.7	80	1	US-08-482-130C-69	Sequence 69, Appl	622	29	53.7	254	2	US-09-586-106D-85	Sequence 85, Appl
550	29	53.7	80	1	US-08-484-211C-69	Sequence 69, Appl	623	29	53.7	254	2	US-09-586-106D-87	Sequence 87, Appl
551	29	53.7	80	2	US-08-906-769-69	Sequence 69, Appl	624	29	53.7	254	2	US-10-799-870-81	Sequence 87, Appl
552	29	53.7	80	2	US-08-906-616-69	Sequence 69, Appl	625	29	53.7	254	2	US-10-799-870-85	Sequence 85, Appl
553	29	53.7	80	2	US-08-817-795-69	Sequence 69, Appl	626	29	53.7	254	2	US-09-422-349A-77	Sequence 77, Appl
554	29	53.7	80	2	US-08-485-443B-69	Sequence 69, Appl	627	29	53.7	264	2	US-09-270-767-3544	Sequence 3544, A
555	29	53.7	80	2	US-08-639-075A-69	Sequence 69, Appl	628	29	53.7	264	2	US-09-270-767-48761	Sequence 48761, A
556	29	53.7	80	2	US-09-012-431-69	Sequence 69, Appl	629	29	53.7	267	2	US-09-710-279-882	Sequence 882, App
557	29	53.7	80	2	US-09-012-692-69	Sequence 69, Appl	630	29	53.7	271	1	US-08-117-083-14	Sequence 14, Appl
558	29	53.7	80	2	US-08-906-613-69	Sequence 69, Appl	631	29	53.7	278	2	US-09-485-885-21	Sequence 21, Appl
559	29	53.7	80	2	US-09-370-838-32	Sequence 32, Appl	632	29	53.7	282	2	US-09-252-991A-28046	Sequence 28046, A
560	29	53.7	80	2	US-09-732-210-344	Sequence 344, App	633	29	53.7	285	2	US-09-134-100C-4756	Sequence 4756, A
561	29	53.7	80	2	US-09-732-210-346	Sequence 346, App	634	29	53.7	307	2	US-09-107-532A-4626	Sequence 14159, A
562	29	53.7	80	2	US-09-732-210-353	Sequence 353, App	635	29	53.7	313	2	US-09-902-540-14159	Sequence 792, App
563	29	53.7	80	2	US-09-854-133-32	Sequence 32, Appl	636	29	53.7	319	2	US-09-710-279-792	Sequence 2008, Ap
564	29	53.7	80	4	PCT-US95-14442A-69	Sequence 69, Appl	637	29	53.7	319	2	US-09-248-796A-4137	Sequence 14137, A
565	29	53.7	81	2	US-09-732-210-337	Sequence 337, App	638	29	53.7	319	2	US-09-949-016-8512	Sequence 8512, Ap
566	29	53.7	90	2	US-09-198-452A-77	Sequence 77, Appl	639	29	53.7	319	2	US-10-014-269-30	Sequence 30, Appl
567	29	53.7	93	2	US-09-732-210-339	Sequence 339, App	640	29	53.7	320	2	US-10-002-974-30	Sequence 30, Appl
568	29	53.7	93	2	US-09-621-976-6840	Sequence 6840, Ap	641	29	53.7	320	2	US-09-134-000C-3967	Sequence 3967, Ap
569	29	53.7	99	2	US-09-621-976-6840	Sequence 10, Appl	642	29	53.7	323	2	US-09-543-681A-5214	Sequence 5214, Ap
570	29	53.7	101	1	US-08-341-843B-10	Sequence 12, Appl	643	29	53.7	324	2	US-09-252-991A-31442	Sequence 31442, A
571	29	53.7	101	1	US-08-427-497E-15	Sequence 15, Appl	644	29	53.7	332	2	US-08-700-442A-9	Sequence 9, Appl
572	29	53.7	101	1	US-08-427-497E-27	Sequence 27, Appl	645	29	53.7	333	1	US-08-831-028-9	Sequence 8, Appl
573	29	53.7	101	2	US-09-489-039A-12049	Sequence 12049, A	646	29	53.7	333	2	US-08-933-750C-16	Sequence 16, Appl
574	29	53.7	101	2	US-09-446-959-6	Sequence 6, Appl1	647	29	53.7	334	2	US-09-234-613-16	Sequence 16, Appl
575	29	53.7	131	2	US-09-252-991A-25402	Sequence 25402, A	648	29	53.7	334	2	US-09-442-349A-65	Sequence 65, Appl
576	29	53.7	135	2	US-09-252-991A-27046	Sequence 27046, A	649	29	53.7	335	2	US-09-949-016-8252	Sequence 8252, Ap
577	29	53.7	143	2	US-09-248-796A-21043	Sequence 21043, A	650	29	53.7	337	2	US-09-949-016-8252	Sequence 144, App
578	29	53.7	144	2	US-09-107-532A-4624	Sequence 4624, Ap	651	29	53.7	338	2	US-09-538-029-144	Sequence 2058, Ap
579	29	53.7	147	2	US-09-216-393B-142	Sequence 142, App	652	29	53.7	343	1	US-08-856-444-2	Sequence 4670, Ap
580	29	53.7	148	2	US-09-640-211A-654	Sequence 654, App	653	29	53.7	350	2	US-09-134-001C-4670	Sequence 12051, A
581	29	53.7	150	2	US-09-252-991A-30249	Sequence 30249, A	654	29	53.7	351	2	US-09-442-349A-71	Sequence 71, Appl
582	29	53.7	153	2	US-09-640-211A-642	Sequence 642, App	655	29	53.7	362	2	US-09-442-349A-69	Sequence 69, Appl
583	29	53.7	155	2	US-09-070-060-7	Sequence 7, Appl1	656	29	53.7	364	2	US-09-442-349A-70	Sequence 70, Appl
584	29	53.7	156	1	US-09-051-869A-3	Sequence 3, Appl1	657	29	53.7	365	2	US-09-442-349A-72	Sequence 72, Appl
585	29	53.7	156	2	US-09-051-869A-4	Sequence 4, Appl1	658	29	53.7	374	2	US-09-442-349A-73	Sequence 73, Appl
586	29	53.7	156	2	US-09-357-746-7	Sequence 7, Appl1	659	29	53.7	374	2	US-09-442-349A-74	Sequence 74, Appl
587	29	53.7	156	2	US-09-665-479A-10	Sequence 10, Appl	660	29	53.7	374	2	US-09-442-349A-75	Sequence 75, Appl
588	29	53.7	157	2	US-09-248-796A-27888	Sequence 27888, A	661	29	53.7	374	2	US-09-442-349A-76	Sequence 76, Appl
589	29	53.7	158	1	US-08-247-904B-10	Sequence 10, Appl	662	29	53.7	374	2	US-09-442-349A-77	Sequence 77, Appl
590	29	53.7	158	1	US-08-247-904B-10	Sequence 10, Appl	663	29	53.7	374	2	US-09-442-349A-78	Sequence 78, Appl
591	29	53.7	158	2	US-08-767-842A-19	Sequence 19, Appl	664	29	53.7	374	2	US-09-442-349A-79	Sequence 79, Appl
592	29	53.7	158	2	US-09-710-279-2430	Sequence 2430, Ap	665	29	53.7	374	2	US-09-442-349A-80	Sequence 80, Appl
593	29	53.7	173	2	US-09-248-796A-16707	Sequence 16707, A	666	29	53.7	374	2	US-09-442-349A-81	Sequence 81, Appl
594	29	53.7	177	2	US-09-248-796A-20170	Sequence 20170, A	667	29	53.7	374	2	US-09-442-349A-82	Sequence 82, Appl
595	29	53.7	178	2	US-09-107-532A-5800	Sequence 5800, Ap	668	29	53.7	374	2	US-09-442-349A-83	Sequence 83, Appl
596	29	53.7	179	2	US-09-583-110-5015	Sequence 5015, Ap	669	29	53.7	374	2	US-09-442-349A-84	Sequence 84, Appl
597	29	53.7	179	2	US-09-769-787-87	Sequence 87, Appl	670	29	53.7	374	2	US-09-442-349A-85	Sequence 85, Appl
598	29	53.7	180	2	US-09-107-433-2844	Sequence 2844, Ap	671	29	53.7	374	2	US-09-442-349A-86	Sequence 86, Appl
599	29	53.7	181	2	US-08-858-207A-317	Sequence 3107, App	672	29	53.7	374	2	US-09-442-349A-87	Sequence 87, Appl
600	29	53.7	186	2	US-09-252-991A-33008	Sequence 33008, A	673	29	53.7	374	2	US-09-442-349A-88	Sequence 88, Appl
601	29	53.7	192	2	US-09-543-681A-6818	Sequence 6818, A	674	29	53.7	374	2	US-09-442-349A-89	Sequence 89, Appl
602	29	53.7	196	2	US-09-198-452A-1204	Sequence 1204, Ap	675	29	53.7	374	2	US-09-442-349A-90	Sequence 90, Appl
603	29	53.7	198	2	US-09-540-236-2754	Sequence 2754, Ap	676	29	53.7	374	2	US-09-442-349A-91	Sequence 91, Appl
604	29	53.7	200	2	US-09-099-041A-11	Sequence 11, Appl	677	29	53.7	374	2	US-09-442-349A-92	Sequence 92, Appl
605	29	53.7	200	2	US-09-245-281-11	Sequence 11, Appl	678	29	53.7	374	2	US-09-442-349A-93	Sequence 93, Appl
606	29	53.7	200	2	US-09-207-359B-11	Sequence 11, Appl	679	29	53.7	374	2	US-09-442-349A-94	Sequence 94, Appl
607	29	53.7	200	2	US-09-340-620A-11	Sequence 11, Appl	680	29	53.7	374	2	US-09-442-349A-95	Sequence 95, Appl
608	29	53.7	200	2	US-09-865-364-11	Sequence 11, Appl	681	29	53.7	374	2	US-09-442-349A-96	Sequence 96, Appl
609	29	53.7	200	2	US-09-728-721-11	Sequence 11, Appl	682	29	53.7	374	2	US-09-442-349A-97	Sequence 97, Appl
610	29	53.7	212	2	US-09-388-221B-20	Sequence 20, Appl	683	29	53.7	374	2	US-09-442-349A-98	Sequence 98, Appl
611	29	53.7	217	2	US-09-252-991A-18564	Sequence 18564, A	684	29	53.7	374	2	US-09-442-349A-99	Sequence 99, Appl

685	29	53.7	374	2	US-09-442-349A-89	Sequence 89, Appl	758	29	53.7	632	2	US-09-661-322A-2	Sequence 2, Appl1
686	29	53.7	374	2	US-09-442-349A-90	Sequence 90, Appl	759	29	53.7	637	2	US-09-489-039A-1081.7	Sequence 10917, A
687	29	53.7	374	2	US-09-442-349A-91	Sequence 91, Appl	760	29	53.7	643	2	US-09-178-252-25	Sequence 25, Appl
688	29	53.7	374	2	US-09-442-349A-92	Sequence 92, Appl	761	29	53.7	643	2	US-09-826-650-25	Sequence 25, Appl
689	29	53.7	380	2	US-08-307-896-1	Sequence 1, Appl1	762	29	53.7	672	2	US-09-270-767-62194	Sequence 194, A
690	29	53.7	380	2	US-09-949-016-9251	Sequence 9251, Ap	763	29	53.7	720	2	US-09-252-991A-19581	Sequence 1981, A
691	29	53.7	383	2	US-09-485-885-23	Sequence 23, Appl	764	29	53.7	724	2	US-09-949-016-10086	Sequence 10086, A
692	29	53.7	383	2	US-09-248-796A-20241	Sequence 20241, A	765	29	53.7	730	2	US-09-107-443-4707	Sequence 4707, Ap
693	29	53.7	393	2	US-09-107-532A-4627	Sequence 4627, Ap	766	29	53.7	731	1	US-08-731-716-2	Sequence 2, Appl1
694	29	53.7	394	2	US-09-442-349A-106	Sequence 106, App	767	29	53.7	731	3	US-09-583-110-4720	Sequence 4720, Appl
695	29	53.7	394	4	PCR-US95-11808-1	Sequence 1, Appl1	768	29	53.7	731	3	US-09-014-897-2	Sequence 2, Appl1
696	29	53.7	395	2	US-09-080-044-5	Sequence 5, Appl1	769	29	53.7	734	2	US-09-270-767-46596	Sequence 46596, A
697	29	53.7	395	2	US-09-531-857A-5	Sequence 5, Appl1	770	29	53.7	748	2	US-09-252-991A-31491	Sequence 31491, A
698	29	53.7	399	2	US-09-949-016-7504	Sequence 7504, Ap	771	29	53.7	758	2	US-09-134-001C-4588	Sequence 4588, Ap
699	29	53.7	400	2	US-10-300-819B-2	Sequence 2, Appl1	772	29	53.7	765	2	US-09-323-872A-24	Sequence 24, Appl
700	29	53.7	413	2	US-09-543-681A-6093	Sequence 6093, Ap	773	29	53.7	765	2	US-09-323-872A-30	Sequence 30, Appl
701	29	53.7	414	2	US-09-640-211A-2247	Sequence 2247, Ap	774	29	53.7	765	2	US-09-072-433-29	Sequence 29, Appl
702	29	53.7	419	2	US-09-100-391-4	Sequence 4, Appl1	775	29	53.7	765	2	US-09-072-433-34	Sequence 34, Appl
703	29	53.7	419	2	US-09-616-614-4	Sequence 4, Appl1	776	29	53.7	775	2	US-09-513-838-6	Sequence 6, Appl1
704	29	53.7	419	2	US-10-288-273-4	Sequence 4, Appl1	777	29	53.7	781	2	US-09-949-016-9170	Sequence 9170, Ap
705	29	53.7	421	2	US-09-002-567B-1	Sequence 1, Appl1	778	29	53.7	805	2	US-09-543-681A-7900	Sequence 7900, Ap
706	29	53.7	421	2	US-09-002-567B-3	Sequence 3, Appl1	779	29	53.7	847	2	US-09-765-288A-10	Sequence 10, Appl
707	29	53.7	421	2	US-09-571-347-1	Sequence 1, Appl1	780	29	53.7	869	2	US-10-314-048A-100	Sequence 100, App
708	29	53.7	421	2	US-09-571-347-3	Sequence 3, Appl1	781	29	53.7	900	2	US-09-949-016-7502	Sequence 7502, Ap
709	29	53.7	421	2	US-09-949-016-6892	Sequence 6892, Ap	782	29	53.7	900	2	US-09-949-016-7502	Sequence 7502, Ap
710	29	53.7	438	2	US-09-674-866A-6	Sequence 6, Appl1	783	29	53.7	926	2	US-09-328-352-5323	Sequence 5323, Ap
711	29	53.7	440	2	US-09-198-452A-1080	Sequence 1080, Ap	784	29	53.7	926	2	US-10-314-048A-104	Sequence 104, App
712	29	53.7	440	2	US-09-438-185A-1009	Sequence 1009, Ap	785	29	53.7	953	2	US-09-099-041A-8	Sequence 8, Appl1
713	29	53.7	441	2	US-09-107-532A-4623	Sequence 4623, Ap	786	29	53.7	953	2	US-09-245-281-8	Sequence 8, Appl1
714	29	53.7	441	2	US-09-107-532A-4625	Sequence 4625, Ap	787	29	53.7	953	2	US-09-207-359B-8	Sequence 8, Appl1
715	29	53.7	442	2	US-09-949-016-10792	Sequence 10792, A	788	29	53.7	953	2	US-09-340-650A-8	Sequence 8, Appl1
716	29	53.7	442	2	US-09-248-796A-26457	Sequence 26457, A	789	29	53.7	953	2	US-09-865-364-8	Sequence 8, Appl1
717	29	53.7	460	2	US-09-198-452A-1085	Sequence 1085, Ap	790	29	53.7	953	2	US-09-728-721-8	Sequence 8, Appl1
718	29	53.7	460	2	US-09-540-236-3771	Sequence 3771, Ap	791	29	53.7	953	2	US-09-949-002-367	Sequence 367, App
719	29	53.7	462	2	US-09-438-917-17	Sequence 17, Appl	792	29	53.7	953	2	US-10-183-770A-4	Sequence 4, Appl1
720	29	53.7	462	2	US-09-949-016-10459	Sequence 10459, A	793	29	53.7	959	2	US-09-949-002-524	Sequence 524, App
721	29	53.7	472	2	US-09-438-185A-1014	Sequence 1014, Ap	794	29	53.7	989	2	US-09-540-236-2137	Sequence 2137, Ap
722	29	53.7	486	2	US-09-252-991A-16751	Sequence 16751, A	795	29	53.7	1008	2	US-09-328-352-7403	Sequence 7403, Ap
723	29	53.7	486	2	US-09-734-237B-54	Sequence 54, Appl	796	29	53.7	1180	2	US-09-224-034-28	Sequence 28, Appl
724	29	53.7	487	2	US-09-270-767-43055	Sequence 43055, A	797	29	53.7	1180	4	PCR-US94-07902-88	Sequence 28, Appl
725	29	53.7	487	2	US-09-734-237B-56	Sequence 56, Appl	798	29	53.7	1181	2	US-09-826-509-587	Sequence 587, App
726	29	53.7	490	2	US-09-099-041A-26	Sequence 26, Appl	799	29	53.7	1181	2	US-09-178-252-23	Sequence 23, Appl
727	29	53.7	490	2	US-09-245-281-26	Sequence 26, Appl	800	29	53.7	1186	2	US-09-826-660-23	Sequence 23, Appl
728	29	53.7	490	2	US-09-207-359B-26	Sequence 26, Appl	801	29	53.7	1227	1	US-08-448-170-8	Sequence 8, Appl1
729	29	53.7	490	2	US-09-340-620A-26	Sequence 26, Appl	802	29	53.7	1227	2	US-08-961-803-9	Sequence 9, Appl1
730	29	53.7	490	2	US-09-865-364-26	Sequence 26, Appl	803	29	53.7	1253	2	US-08-506-296B-14	Sequence 14, Appl
731	29	53.7	490	2	US-09-728-721-26	Sequence 26, Appl	804	29	53.7	1260	2	US-08-506-296B-21	Sequence 21, Appl
732	29	53.7	497	2	US-09-710-279-2812	Sequence 2812, Ap	805	29	53.7	1359	2	US-09-674-866A-3	Sequence 3, Appl1
733	29	53.7	500	2	US-09-442-100-14	Sequence 14, Appl	806	29	53.7	1507	2	US-09-914-259-37	Sequence 37, Appl
734	29	53.7	500	2	US-09-325-932A-149	Sequence 149, App	807	29	53.7	1590	2	US-09-617-099B-1	Sequence 1, Appl1
735	29	53.7	500	2	US-08-939-106-14	Sequence 14, Appl	808	29	53.7	1590	2	US-10-180-326A-1	Sequence 1, Appl1
736	29	53.7	501	2	US-09-442-102-14	Sequence 14, Appl	809	29	53.7	1608	2	US-09-964-956-61	Sequence 61, Appl
737	29	53.7	513	2	US-09-252-991A-25784	Sequence 25784, A	810	29	53.7	1614	2	US-09-964-956-13	Sequence 13, Appl
738	29	53.7	513	2	US-09-489-039A-10924	Sequence 10924, A	811	29	53.7	1614	2	US-09-052-465-2	Sequence 2, Appl1
739	29	53.7	527	2	US-09-949-016-9616	Sequence 9616, Ap	812	29	53.7	1614	2	US-08-423-582-2	Sequence 2, Appl1
740	29	53.7	542	2	US-09-380-420C-17	Sequence 17, Appl	813	29	53.7	1788	1	US-09-052-262-2	Sequence 2, Appl1
741	29	53.7	558	2	US-09-899-642A-17	Sequence 17, Appl	814	29	53.7	1788	1	US-08-962-284-2	Sequence 2, Appl1
742	29	53.7	558	1	US-09-489-039A-12263	Sequence 12263, A	815	29	53.7	1788	1	US-09-964-956-60	Sequence 60, Appl
743	29	53.7	558	1	US-08-656-177A-2	Sequence 2, Appl1	816	29	53.7	1896	2	US-08-964-956-14	Sequence 14, Appl
744	29	53.7	558	2	US-09-256-797-2	Sequence 2, Appl1	817	29	53.7	1905	2	US-09-964-956-43	Sequence 43, Appl
745	29	53.7	560	2	US-09-949-016-6458	Sequence 6458, Ap	818	29	53.7	2611	2	US-09-964-956-63	Sequence 63, Appl
746	29	53.7	560	2	US-09-912-559-3	Sequence 3, Appl1	819	29	53.7	2611	2	US-09-964-956-27	Sequence 27, Appl
747	29	53.7	560	2	US-09-912-559-4	Sequence 4, Appl1	820	29	53.7	2811	2	US-09-964-956-27	Sequence 27, Appl
748	29	53.7	580	2	US-09-248-796A-15510	Sequence 15510, A	821	29	53.7	2814	2	US-09-964-956-25	Sequence 25, Appl
749	29	53.7	582	2	US-09-100-391-10	Sequence 10, Appl	822	29	53.7	4302	2	US-08-658-136-5	Sequence 5, Appl1
750	29	53.7	582	2	US-09-616-614-10	Sequence 10, Appl	823	29	53.7	4302	2	US-09-052-466-8	Sequence 8, Appl1
751	29	53.7	582	2	US-10-288-273-10	Sequence 10, Appl	824	29	53.7	4302	2	US-08-422-582-8	Sequence 8, Appl1
752	29	53.7	582	2	US-09-352-991A-21253	Sequence 21253, A	825	29	53.7	4303	1	US-09-052-262-8	Sequence 8, Appl1
753	29	53.7	586	1	US-08-565-386-11	Sequence 11, Appl	826	29	53.7	4303	1	US-08-460-751-2	Sequence 2, Appl1
754	29	53.7	597	2	US-09-922-445-51	Sequence 51, Appl	827	29	53.7	4303	2	US-09-479-467A-2	Sequence 2, Appl1
755	29	53.7	613	2	US-09-328-352-5066	Sequence 5066, Ap	828	29	53.7	4339	2	US-09-655-160-2	Sequence 2, Appl1
756	29	53.7	622	2	US-09-328-352-4844	Sequence 4844, Ap	829	29	53.7	4339	2	US-09-052-466-6	Sequence 6, Appl1
757	29	53.7	625	2	US-09-543-681A-6669	Sequence 6669, Ap	830	29	53.7	4339	2	US-08-422-582-6	Sequence 6, Appl1

831	29	53.7	4339	2	US-09-052-262-6	Sequence 6, Appl1	904	28	51.9	190	2	US-09-075-454-5	Sequence 5, Appl1
832	28.5	52.8	446	2	US-09-328-352-6360	Sequence 6360, Ap	905	28	51.9	191	2	US-08-867-288A-24	Sequence 24, Appl
833	28	51.9	19	1	US-07-882-923-13	Sequence 13, Appl	906	28	51.9	192	1	US-08-867-680-2	Sequence 2, Appl1
834	28	51.9	32	1	US-08-361-920-3	Sequence 3, Appl1	907	28	51.9	192	2	US-09-370-950C-5	Sequence 5, Appl1
835	28	51.9	32	1	US-08-361-920-9	Sequence 9, Appl1	908	28	51.9	192	2	US-09-709-103-52	Sequence 52, Appl
836	28	51.9	32	1	US-08-479-939-3	Sequence 3, Appl1	909	28	51.9	192	2	US-09-439-410A-52	Sequence 52, Appl
837	28	51.9	32	1	US-08-479-939-9	Sequence 9, Appl1	910	28	51.9	192	2	US-10-418-036-25	Sequence 25, Appl
838	28	51.9	32	1	US-08-483-432-3	Sequence 3, Appl1	911	28	51.9	192	2	US-10-418-036-27	Sequence 27, Appl
839	28	51.9	32	1	US-08-483-432-9	Sequence 9, Appl1	912	28	51.9	197	1	US-07-914-284A-8	Sequence 8, Appl1
840	28	51.9	43	1	US-08-179-481-83	Sequence 83, Appl	913	28	51.9	200	2	US-09-252-991A-17035	Sequence 17035, A
841	28	51.9	51	2	US-09-439-410A-97	Sequence 97, Appl	914	28	51.9	200	2	US-09-328-352-6898	Sequence 6898, Ap
842	28	51.9	54	2	US-09-305-258-560	Sequence 560, App	915	28	51.9	204	2	US-09-949-016-8906	Sequence 8906, Ap
843	28	51.9	54	2	US-10-004-860-560	Sequence 560, App	916	28	51.9	205	2	US-09-949-016-8906	Sequence 19037, A
844	28	51.9	60	2	US-09-328-352-8216	Sequence 8216, Ap	917	28	51.9	211	2	US-10-418-036-24	Sequence 24, Appl
845	28	51.9	60	2	US-09-513-999C-4636	Sequence 4636, Ap	918	28	51.9	212	2	US-09-582-379-2	Sequence 2, Appl1
846	28	51.9	61	2	US-09-543-681A-4688	Sequence 4688, Ap	919	28	51.9	212	2	US-09-582-379-3	Sequence 3, Appl1
847	28	51.9	61	2	US-09-676-519-33	Sequence 33, Appl	920	28	51.9	227	2	US-08-911-853-23	Sequence 23, Appl
848	28	51.9	72	2	US-09-370-767-6119	Sequence 6119, A	921	28	51.9	227	2	US-09-479-409-23	Sequence 23, Appl
849	28	51.9	80	2	US-09-107-532A-4023	Sequence 4023, Ap	922	28	51.9	227	2	US-09-479-453-23	Sequence 23, Appl
850	28	51.9	81	2	US-09-270-767-46160	Sequence 46160, A	923	28	51.9	227	2	US-09-270-767-33085	Sequence 33085, A
851	28	51.9	82	2	US-09-621-976-4669	Sequence 4669, Ap	924	28	51.9	227	2	US-09-270-767-37978	Sequence 37978, A
852	28	51.9	87	2	US-09-370-767-45829	Sequence 45829, A	925	28	51.9	235	2	US-09-270-767-53195	Sequence 53195, A
853	28	51.9	90	2	US-09-188-930-134	Sequence 134, App	926	28	51.9	235	2	US-09-248-796A-19616	Sequence 19616, A
854	28	51.9	100	2	US-09-312-283C-134	Sequence 134, App	927	28	51.9	240	2	US-09-978-248A-3	Sequence 3, Appl1
855	28	51.9	101	2	US-09-312-283C-134	Sequence 235, App	928	28	51.9	240	2	US-09-978-248A-4	Sequence 4, Appl1
856	28	51.9	108	2	US-09-270-767-57683	Sequence 57683, A	929	28	51.9	241	2	US-09-902-540-13053	Sequence 13053, A
857	28	51.9	108	2	US-08-959-212-10	Sequence 10, Appl	930	28	51.9	242	2	US-09-489-038A-8331	Sequence 8331, Ap
858	28	51.9	112	2	US-09-370-767-31687	Sequence 31687, A	931	28	51.9	251	2	US-09-710-279-298	Sequence 298, App
859	28	51.9	112	2	US-09-370-767-46904	Sequence 46904, A	932	28	51.9	251	2	US-09-710-279-298	Sequence 722, App
860	28	51.9	118	2	US-09-605-703B-2026	Sequence 2026, Ap	933	28	51.9	252	2	US-09-328-352-5430	Sequence 5430, A
861	28	51.9	122	2	US-09-470-767-46747	Sequence 46747, A	934	28	51.9	252	2	US-09-328-352-5430	Sequence 32758, A
862	28	51.9	125	2	US-09-513-999C-5957	Sequence 5957, Ap	935	28	51.9	256	2	US-09-328-352-5430	Sequence 32758, A
863	28	51.9	127	2	US-09-199-637A-275	Sequence 275, App	936	28	51.9	258	2	US-09-828-441-13	Sequence 13, Appl
864	28	51.9	134	2	US-09-270-767-38232	Sequence 38232, A	937	28	51.9	259	2	US-09-522-711-18	Sequence 18, Appl
865	28	51.9	134	2	US-09-270-767-53449	Sequence 53449, A	938	28	51.9	260	2	US-09-248-796A-14988	Sequence 14988, A
866	28	51.9	134	2	US-09-513-999C-7880	Sequence 7880, Ap	939	28	51.9	263	1	US-08-809-267-4	Sequence 4, Appl1
867	28	51.9	135	2	US-09-513-999C-7880	Sequence 21974, A	940	28	51.9	263	4	PCT-US95-13662A-4	Sequence 10, Appl
868	28	51.9	136	2	US-09-448-796A-21974	Sequence 21974, A	941	28	51.9	266	1	US-08-812-023-10	Sequence 10, Appl
869	28	51.9	139	2	US-09-134-000C-6196	Sequence 6196, Ap	942	28	51.9	266	2	US-07-791-931-10	Sequence 10, Appl
870	28	51.9	148	2	US-09-543-681A-7974	Sequence 7974, Ap	943	28	51.9	266	2	US-09-138-873A-10	Sequence 11163, A
871	28	51.9	150	2	US-09-543-681A-7974	Sequence 26, Appl	944	28	51.9	267	2	US-09-949-016-11163	Sequence 11164, A
872	28	51.9	155	2	US-09-522-714-26	Sequence 26, Appl	945	28	51.9	267	2	US-09-949-016-11163	Sequence 45815, A
873	28	51.9	157	2	US-10-012-331A-356	Sequence 356, App	946	28	51.9	276	2	US-09-270-767-48915	Sequence 13255, A
874	28	51.9	157	2	US-10-012-331A-356	Sequence 356, App	947	28	51.9	277	2	US-09-489-038A-13235	Sequence 6, Appl1
875	28	51.9	157	2	US-10-006-768A-356	Sequence 356, App	948	28	51.9	280	2	US-09-828-441-13	Sequence 10, Appl
876	28	51.9	157	2	US-10-015-671A-356	Sequence 356, App	949	28	51.9	282	2	US-09-270-767-53835	Sequence 53835, A
877	28	51.9	157	2	US-10-015-671A-356	Sequence 356, App	950	28	51.9	284	1	US-09-248-796A-14473	Sequence 16473, A
878	28	51.9	157	2	US-10-011-833A-356	Sequence 356, App	951	28	51.9	284	2	US-09-230-225B-6	Sequence 3, Appl1
879	28	51.9	157	2	US-10-006-768A-356	Sequence 356, App	952	28	51.9	285	2	US-09-230-225B-6	Sequence 3, Appl1
880	28	51.9	157	2	US-10-012-064A-356	Sequence 356, App	953	28	51.9	286	2	US-09-254-733-3	Sequence 3571, Ap
881	28	51.9	163	2	US-09-387-286-13	Sequence 13, Appl	954	28	51.9	286	2	US-09-134-001C-3571	Sequence 38618, A
882	28	51.9	168	1	US-08-461-985-10	Sequence 10, Appl	955	28	51.9	289	2	US-09-270-767-53835	Sequence 53835, A
883	28	51.9	168	1	US-08-932-787B-18	Sequence 18, Appl	956	28	51.9	289	2	US-09-270-767-53835	Sequence 16473, A
884	28	51.9	168	2	US-08-932-012C-18	Sequence 18, Appl	957	28	51.9	289	2	US-09-270-767-53835	Sequence 16473, A
885	28	51.9	168	2	US-08-888-818C-18	Sequence 18, Appl	958	28	51.9	289	2	US-09-248-796A-14473	Sequence 16473, A
886	28	51.9	172	2	US-09-100-391-7	Sequence 7, Appl1	959	28	51.9	293	2	US-08-651-136C-20	Sequence 20, Appl
887	28	51.9	172	2	US-09-616-614-7	Sequence 7, Appl1	960	28	51.9	293	2	US-09-229-911A-20	Sequence 20, Appl
888	28	51.9	172	2	US-10-288-273-7	Sequence 7, Appl1	961	28	51.9	293	2	US-10-007-521-20	Sequence 24, Appl
889	28	51.9	173	2	US-09-270-767-34680	Sequence 34680, A	962	28	51.9	293	2	US-10-007-521-20	Sequence 24, Appl
890	28	51.9	173	2	US-09-270-767-49897	Sequence 49897, A	963	28	51.9	294	2	US-08-651-136C-24	Sequence 24, Appl
891	28	51.9	177	2	US-09-540-236-1956	Sequence 1956, Ap	964	28	51.9	294	2	US-10-007-521-24	Sequence 24, Appl
892	28	51.9	178	2	US-09-100-391-6	Sequence 6, Appl1	965	28	51.9	297	2	US-08-651-136C-4	Sequence 4, Appl1
893	28	51.9	178	2	US-09-616-614-6	Sequence 6, Appl1	966	28	51.9	297	2	US-10-007-521-4	Sequence 4, Appl1
894	28	51.9	178	2	US-10-288-273-6	Sequence 6, Appl1	967	28	51.9	297	2	US-09-229-911A-4	Sequence 18, Appl
895	28	51.9	179	2	US-09-270-767-57319	Sequence 57319, A	968	28	51.9	298	2	US-08-651-136C-18	Sequence 18, Appl
896	28	51.9	181	2	US-08-176-620A-8	Sequence 61102, A	969	28	51.9	298	2	US-09-329-911A-18	Sequence 18, Appl
897	28	51.9	183	1	US-08-461-985-8	Sequence 8, Appl1	970	28	51.9	298	2	US-10-007-521-18	Sequence 18, Appl
898	28	51.9	183	1	US-08-932-787B-16	Sequence 16, Appl	971	28	51.9	299	2	US-09-631-548-2	Sequence 2, Appl1
899	28	51.9	183	1	US-08-932-787B-16	Sequence 16, Appl	972	28	51.9	303	2	US-09-270-767-43614	Sequence 43614, A
900	28	51.9	183	2	US-08-888-818C-16	Sequence 16, Appl	973	28	51.9	303	2	US-10-104-047-3897	Sequence 10, Appl
901	28	51.9	183	2	US-08-888-818C-16	Sequence 16, Appl	974	28	51.9	303	2	US-09-982-616-10	Sequence 72, Appl
902	28	51.9	187	2	US-09-248-796A-14589	Sequence 14589, A	975	28	51.9	304	2	US-09-189-060B-72	Sequence 72, Appl
903	28	51.9	189	2	US-09-543-681A-7932	Sequence 7932, Ap	976	28	51.9	304	2	US-09-189-060B-72	Sequence 72, Appl

977 28 51.9 304 2 US-09-248-796A-15524
978 28 51.9 305 1 US-08-090-013-2
979 28 51.9 305 1 US-08-081-328-2
980 28 51.9 305 1 US-08-232-249-2
981 28 51.9 305 1 US-08-921-426-8
982 28 51.9 305 1 US-08-833-642A-2
983 28 51.9 305 1 US-08-140-008A-4
984 28 51.9 305 1 US-08-836-340-1
985 28 51.9 305 1 US-08-389-423-2
986 28 51.9 305 2 US-08-816-915-8
987 28 51.9 305 2 US-09-230-222-1
988 28 51.9 305 2 US-09-189-060B-56
989 28 51.9 305 2 US-09-230-665-2
990 28 51.9 305 2 US-09-189-028-2
991 28 51.9 305 4 PCT-US95-07743-8
992 28 51.9 306 2 US-09-189-060B-66
993 28 51.9 306 2 US-09-189-060B-68
994 28 51.9 306 2 US-09-543-681A-7494
995 28 51.9 307 2 US-09-189-060B-74
996 28 51.9 308 2 US-08-651-136C-6
997 28 51.9 308 2 US-09-189-060B-70
998 28 51.9 308 2 US-09-229-911A-6
999 28 51.9 308 2 US-09-543-681A-4572
1000 28 51.9 308 2 US-10-007-521-6

ALIGNMENTS

RESULT 1
US-08-934-915-44
Sequence 44, Application US/08934915
Patent No. 5932412
GENERAL INFORMATION:
APPLICANT: DILLNER, JOAKIM
APPLICANT: DILLNER, LENA
APPLICANT: CHENG, HWEE-MING
TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
TITLE OF INVENTION: DIAGNOSTIC PURPOSES
NUMBER OF SEQUENCES: 193
CORRESPONDENCE ADDRESS:
ADDRESSEE: MASON & ASSOCIATES, P.A.
STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
CITY: CLEARWATER
STATE: FLORIDA
COUNTRY: U.S.A.
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: Windows 3.0
SOFTWARE: Microsoft Word 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/934,915
FILING DATE: 22-SEP-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/949,836
ATTORNEY/AGENT INFORMATION:
NAME: LOUISE A. FOUTCH
REGISTRATION NUMBER: 37,133
REFERENCE/DOCKET NUMBER: 1946.6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 813-538-3800
TELEFAX: 813-538-3820
TELEX:
INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid

Sequence 15524, A
Sequence 2, Appli
Sequence 2, Appli
Sequence 2, Appli
Sequence 8, Appli
Sequence 2, Appli
Sequence 4, Appli
Sequence 1, Appli
Sequence 2, Appli
Sequence 8, Appli
Sequence 1, Appli
Sequence 56, Appli
Sequence 2, Appli
Sequence 6, Appli
Sequence 68, Appli
Sequence 7494, Ap
Sequence 74, Appli
Sequence 6, Appli
Sequence 70, Appli
Sequence 6, Appli
Sequence 4572, Ap
Sequence 6, Appli

TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-934-915-44

Query Match 100.0%; Score 54; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.0045;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KISEYRHYC 9
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DB 3 KISEYRHYC 11

RESULT 2
US-08-934-915-163
Sequence 163, Application US/08934915
Patent No. 5932412
GENERAL INFORMATION:
APPLICANT: DILLNER, JOAKIM
APPLICANT: DILLNER, LENA
APPLICANT: CHENG, HWEE-MING
TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
TITLE OF INVENTION: DIAGNOSTIC PURPOSES
NUMBER OF SEQUENCES: 193
CORRESPONDENCE ADDRESS:
ADDRESSEE: MASON & ASSOCIATES, P.A.
STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
CITY: CLEARWATER
STATE: FLORIDA
COUNTRY: U.S.A.
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: Windows 3.0
SOFTWARE: Microsoft Word 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/934,915
FILING DATE: 22-SEP-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/949,836
ATTORNEY/AGENT INFORMATION:
NAME: LOUISE A. FOUTCH
REGISTRATION NUMBER: 37,133
REFERENCE/DOCKET NUMBER: 1946.6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 813-538-3800
TELEFAX: 813-538-3820
TELEX:
INFORMATION FOR SEQ ID NO: 163:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-934-915-163

Query Match 100.0%; Score 54; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.0045;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KISEYRHYC 9
|||||||
DB 3 KISEYRHYC 11

RESULT 3
US-09-980-523A-2
Sequence 2, Application US/09980523A

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; Patent No. 6783763
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCES
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 AND E7
; TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: WO/01/01513
; CURRENT APPLICATION NUMBER: US/09/980,523A
; PRIOR FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: PCT/FR00/01513
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: FR 99/07012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-09-980-523A-2

Query Match          100.0%; Score 54; DB 2; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.035;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KISEYRHYC 9
DB      79 KISEYRHYC 87

RESULT 4
US-08-316-239B-3
; Sequence 3, Application US/08316239B
; Patent No. 5679509
; GENERAL INFORMATION:
; APPLICANT: Wheeler, Cosette M.
; APPLICANT: Parmenter, Cheryl A.
; TITLE OF INVENTION: Methods and a Diagnostic Aid for
; TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
; TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
; TITLE OF INVENTION: Cervical Cancer
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jagtiani & Associates
; STREET: 6126 Rocky Way Court
; CITY: Centreville
; STATE: VA
; COUNTRY: USA
; ZIP: 20120-3400
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/316,239B
; FILING DATE: 30-SEP-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jagtiani, Ajay A.
; REGISTRATION NUMBER: 35,205
; REFERENCE/DOCKET NUMBER: UNME-0001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 817-9453
; TELEFAX: (703) 803-9387
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 162 amino acids
; TYPE: amino acid
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; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: Protein
; HYPOTHETICAL: NO
US-08-316-239B-3

Query Match          100.0%; Score 54; DB 1; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.036;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KISEYRHYC 9
DB      79 KISEYRHYC 87

RESULT 5
US-08-316-239B-4
; Sequence 4, Application US/08316239B
; Patent No. 5679509
; GENERAL INFORMATION:
; APPLICANT: Wheeler, Cosette M.
; APPLICANT: Parmenter, Cheryl A.
; TITLE OF INVENTION: Methods and a Diagnostic Aid for
; TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
; TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
; TITLE OF INVENTION: Cervical Cancer
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jagtiani & Associates
; STREET: 6126 Rocky Way Court
; CITY: Centreville
; STATE: VA
; COUNTRY: USA
; ZIP: 20120-3400
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/316,239B
; FILING DATE: 30-SEP-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jagtiani, Ajay A.
; REGISTRATION NUMBER: 35,205
; REFERENCE/DOCKET NUMBER: UNME-0001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 817-9453
; TELEFAX: (703) 803-9387
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 162 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
US-08-316-239B-4

Query Match          100.0%; Score 54; DB 1; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.036;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KISEYRHYC 9
DB      79 KISEYRHYC 87

RESULT 6
US-08-660-165-12
; Sequence 12, Application US/08660165A
; Patent No. 6004557
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; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-12

Query Match          100.0%; Score 54; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.038;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KISEYRHYC 9
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Db 17 KISEYRHYC 25

RESULT 7
US-08-860-165-14
; Sequence 14, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-14

Query Match          100.0%; Score 54; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.038;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KISEYRHYC 9
   |||||
Db 148 KISEYRHYC 156

RESULT 8
US-09-359-382-12
; Sequence 12, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
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; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; EARLIER FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-12

Query Match          100.0%; Score 54; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.038;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KISEYRHYC 9
   |||||
Db 17 KISEYRHYC 25

RESULT 9
US-09-359-382-14
; Sequence 14, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; EARLIER FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-14

Query Match          100.0%; Score 54; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.038;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KISEYRHYC 9
   |||||
Db 148 KISEYRHYC 156

RESULT 10
US-09-462-993-1
; Sequence 1, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
; APPLICANT: KIENVY, Marie-Paule
```



```
APPLICANT: BALLOU, Jean-Marc
APPLICANT: BIZOUARNE, Nadine
TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
FILE OF INVENTION: POLYPEPTIDE WITH MODIFIED CELL LOCATION
FILE REFERENCE: 017753-122
CURRENT APPLICATION NUMBER: US/09/462,993
PRIOR FILING DATE: 2000-04-17
PRIOR APPLICATION NUMBER: PCT/FR98/01576
PRIOR FILING DATE: 1998-07-17
PRIOR APPLICATION NUMBER: FR 97/09152
PRIOR FILING DATE: 1997-07-18
NUMBER OF SEQ ID NOS: 23
SOFTWARE: Patentin Ver. 2.2
SEQ ID NO 1
LENGTH: 243
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Derived from
OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-09-462-993-1
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Query Match          100.0%; Score 54; DB 2; Length 243;
Best Local Similarity 100.0%; Pred. No. 0.053;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 KISEYRHYC 9
Db 107 KISEYRHYC 115
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RESULT 11
US-08-860-165-10
Sequence 10, Application US/08860165A
Patent No. 6004557
GENERAL INFORMATION:
APPLICANT: EDWARDS, Stirling John
APPLICANT: COX, John Cooper
APPLICANT: WEBB, Elizabeth Ann
APPLICANT: FRAZER, Ian
TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
FILE REFERENCE: 017227/130
CURRENT APPLICATION NUMBER: US/08/860,165A
CURRENT FILING DATE: 1997-09-22
EARLIER APPLICATION NUMBER: PCT/AU95/00868
EARLIER FILING DATE: 1995-12-20
EARLIER APPLICATION NUMBER: AU PNO157
EARLIER FILING DATE: 1994-12-20
NUMBER OF SEQ ID NOS: 15
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 10
LENGTH: 266
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10
```

```
Query Match          100.0%; Score 54; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.058;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 KISEYRHYC 9
Db 79 KISEYRHYC 87
```

```
RESULT 12
US-09-359-382-10
Sequence 10, Application US/09359382
Patent No. 6306397
GENERAL INFORMATION:
```

```
APPLICANT: EDWARDS, Stirling John
APPLICANT: COX, John Cooper
APPLICANT: WEBB, Elizabeth Ann
APPLICANT: FRAZER, Ian
TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
FILE REFERENCE: 017227/0148
CURRENT APPLICATION NUMBER: US/09/359,382
CURRENT FILING DATE: 1999-07-23
EARLIER APPLICATION NUMBER: US 08/860,165
EARLIER FILING DATE: 1997-09-22
EARLIER APPLICATION NUMBER: PCT/AU95/00868
EARLIER FILING DATE: 1995-12-20
EARLIER APPLICATION NUMBER: AU PNO157/94
EARLIER FILING DATE: 1994-12-20
NUMBER OF SEQ ID NOS: 27
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 10
LENGTH: 266
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-09-359-382-10
```

```
Query Match          100.0%; Score 54; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.058;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 KISEYRHYC 9
Db 79 KISEYRHYC 87
```

```
RESULT 13
US-09-367-309A-1
Sequence 1, Application US/09367309A
Patent No. 6428807
GENERAL INFORMATION:
APPLICANT: MACFARLAN, RODERICK I.
APPLICANT: MALLIAROS, JIM
TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
FILE REFERENCE: 017227/0149
CURRENT APPLICATION NUMBER: US/09/367,309A
CURRENT FILING DATE: 1999-08-11
PRIOR APPLICATION NUMBER: PCT/AU98/00080
PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: AU PO 5178
PRIOR FILING DATE: 1997-02-19
NUMBER OF SEQ ID NOS: 6
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 1
LENGTH: 266
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-09-367-309A-1
```

```
Query Match          100.0%; Score 54; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.058;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 KISEYRHYC 9
Db 79 KISEYRHYC 87
```

```
RESULT 14
US-09-485-885-4
Sequence 4, Application US/09485885
Patent No. 6342224
GENERAL INFORMATION:
APPLICANT: BRUCK, Claudine
APPLICANT: CABEZON SILVA, Teresa
APPLICANT: DELISSE, Anne-Marie Eva
APPLICANT: GERARD, Catherine Marie Ghislaine
APPLICANT: LOMBARDO-BENCHEIKH, Angela
```

```

; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-4

Query Match          100.0%; Score 54; DB 2; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KISEYRHYC 9
        |||||
Db      185 KISEYRHYC 193

RESULT 15
US-09-485-885-10
; Sequence 10, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-10

Query Match          100.0%; Score 54; DB 2; Length 292;
Best Local Similarity 100.0%; Pred. No. 0.064;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KISEYRHYC 9
        |||||
Db      204 KISEYRHYC 212

RESULT 16
US-09-485-885-6
; Sequence 6, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
```

```

; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-6

Query Match          100.0%; Score 54; DB 2; Length 371;
Best Local Similarity 100.0%; Pred. No. 0.081;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KISEYRHYC 9
        |||||
Db      185 KISEYRHYC 193

RESULT 17
US-09-485-885-14
; Sequence 14, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-14

Query Match          100.0%; Score 54; DB 2; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.085;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KISEYRHYC 9
        |||||
Db      204 KISEYRHYC 212

RESULT 18
US-08-159-339A-76
; Sequence 76, Application US/08159339A
; Patent No. 6037135
; GENERAL INFORMATION:
; APPLICANT: Kubo, Ralph T.
; APPLICANT: Grey, Howard M.
; APPLICANT: Sette, Alessandro
; APPLICANT: Celis, Esteban
; TITLE OF INVENTION: HLA Binding peptides and Their
; NUMBER OF SEQUENCES: 1254
; CORRESPONDENCE ADDRESS:
; ADDRESS: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
```

```
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/159,339A
FILING DATE: 29-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 018623-005030US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
TELEX:
INFORMATION FOR SEQ ID NO: 76:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-159-339A-76

Query Match          90.7%; Score 49; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches      8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      2 ISEYRHYC 9
        |||||
        1 ISEYRHYC 8

Db
```

```
RESULT 19
US-09-601-729-277
Sequence 277, Application US/09601729
```

```
GENERAL INFORMATION:
APPLICANT: THIAM, KADER
APPLICANT: AURIAULT, CLAUDE
APPLICANT: GRAS-MASSE, HELENE
APPLICANT: LOING, ESTELLE
APPLICANT: VERMARDE, CLAUDIE
APPLICANT: GUILLET, JEAN GERARD
TITLE OF INVENTION: LIPOPEPTIDES CONTAINING AN INTERFERON FRAGMENT AND USES
TITLE OF INVENTION: THERAPEUTIC PHARMACEUTICAL COMPOSITIONS
FILE REFERENCE: USB-97-AU-IN
CURRENT APPLICATION NUMBER: US/09/601,729
CURRENT FILING DATE: 2000-11-20
PRIOR APPLICATION NUMBER: PCT/FR99/00259
PRIOR FILING DATE: 1999-02-05
PRIOR APPLICATION NUMBER: 98 01439
PRIOR FILING DATE: 1998-02-06
NUMBER OF SEQ ID NOS: 281
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 277
LENGTH: 9
TYPE: PRT
ORGANISM: Artificial Sequence
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
```

```
OTHER INFORMATION: peptide
US-09-601-729-277
```

```
Query Match          90.7%; Score 49; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches      8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      2 ISEYRHYC 9
        |||||
        1 ISEYRHYC 8

Db
```

```
RESULT 20
US-09-980-523A-8
Sequence 8, Application US/09980523A
```

```
GENERAL INFORMATION:
APPLICANT: CHOIPPIN, JEANNINE
APPLICANT: BOURGAULT VILLADA, ISABELLE
APPLICANT: GUILLET, JEAN-GERARD
APPLICANT: CONNAN, FRANCINE
APPLICANT: FERRIES, ESTELLE
TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 AND E7
TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
FILE REFERENCE: WO81 AO INS
CURRENT APPLICATION NUMBER: US/09/980,523A
CURRENT FILING DATE: 2002-04-29
PRIOR APPLICATION NUMBER: PCT/FR00/01513
PRIOR FILING DATE: 2000-05-31
PRIOR APPLICATION NUMBER: FR 99/07012
PRIOR FILING DATE: 1999-06-03
NUMBER OF SEQ ID NOS: 24
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 8
LENGTH: 29
TYPE: PRT
ORGANISM: Human Papillomavirus
US-09-980-523A-8
```

```
Query Match          90.7%; Score 49; DB 2; Length 29;
Best Local Similarity 100.0%; Pred. No. 0.049;
Matches      8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      2 ISEYRHYC 9
        |||||
        1 ISEYRHYC 8

Db
```

```
RESULT 21
US-09-701-080C-18
Sequence 18, Application US/09701080C
```

```
GENERAL INFORMATION:
APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY
TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300
TITLE OF INVENTION: TRANSCRIPTIONAL REGULATION
FILE REFERENCE: N73477C GCM
CURRENT APPLICATION NUMBER: US/09/701,080C
CURRENT FILING DATE: 2001-02-27
PRIOR APPLICATION NUMBER: GB 9811303.8
PRIOR FILING DATE: 1998-05-26
PRIOR APPLICATION NUMBER: GB 9900157.0
PRIOR FILING DATE: 1999-01-05
NUMBER OF SEQ ID NOS: 36
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 18
LENGTH: 151
TYPE: PRT
ORGANISM: Human papillomavirus
US-09-701-080C-18
```

```
Query Match          90.7%; Score 49; DB 2; Length 151;
```

Best Local Similarity 88.9%; Pred. No. 0.25;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KISEYRHYC 9
| | | | |
Db 72 KISEYRHYC 80

RESULT 22
US-08-117-083-10
; Sequence 10, Application US/08117083
; Patent No. 5719054
; GENERAL INFORMATION:
; APPLICANT: Bourneil, Michael E.
; APPLICANT: Ingils, Stephen C.
; APPLICANT: Munro, Alan J.
; TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human
; TITLE OF INVENTION: Papilloma Virus Proteins
; NUMBER OF SEQUENCES: 70
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Walter H. Dreger
; STREET: 4 Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/117,083
; FILING DATE: 10-SEP-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Dreger, Walter H.
; REGISTRATION NUMBER: 24,190
; REFERENCE/DOCKET NUMBER: A-58783
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-781-1989
; TELEFAX: 415-398-3249
; TELEX: 910 277299
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 182 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..182
; OTHER INFORMATION: /note="Xaa refers to stop codon in
; the open reading frame."
US-08-117-083-10

Query Match 90.7%; Score 49; DB 1; Length 182;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 ISEYRHYC 9
| | | | |
Db 61 ISEYRHYC 68

RESULT 23
US-08-159-339A-234
; Sequence 234, Application US/08159339A
; Patent No. 6037135
; GENERAL INFORMATION:
; APPLICANT: Kubo, Ralph T.
; APPLICANT: Grey, Howard M.

APPLICANT: Sette, Alessandro
; APPLICANT: Celis, Bstaban
; TITLE OF INVENTION: HLA Binding peptides and Their
; TITLE OF INVENTION: Uses
; NUMBER OF SEQUENCES: 1254
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/159,339A
; FILING DATE: 29-NOV-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/926,666
; FILING DATE: 07-AUG-1992
; APPLICATION NUMBER: US 08/027,746
; FILING DATE: 05-MAR-1993
; APPLICATION NUMBER: US 08/103,396
; FILING DATE: 06-AUG-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Weber, Ellen Lauver
; REGISTRATION NUMBER: 32,762
; REFERENCE/DOCKET NUMBER: 018623-005030US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; TELEX:
; INFORMATION FOR SEQ ID NO: 234:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-159-339A-234

Query Match 83.3%; Score 45; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KISEYRHY 8
| | | | |
Db 1 KISEYRHY 8

RESULT 24
US-08-159-339A-75
; Sequence 75, Application US/08159339A
; Patent No. 6037135
; GENERAL INFORMATION:
; APPLICANT: Kubo, Ralph T.
; APPLICANT: Grey, Howard M.
; APPLICANT: Sette, Alessandro
; APPLICANT: Celis, Bstaban
; TITLE OF INVENTION: HLA Binding peptides and Their
; TITLE OF INVENTION: Uses
; NUMBER OF SEQUENCES: 1254
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111-3834

```
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/159,339A
FILING DATE: 29-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 018623-005030US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
TELEX:
INFORMATION FOR SEQ ID NO: 75:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-159-339A-75
```

```
Query Match      83.3%: Score 45; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.087;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 KISEYRHY 8
        |||||
Db       3 KISEYRHY 10
```

```
RESULT 25
US-09-454-071-6
Sequence 6, Application US/09454071
Patent No. 6673596
GENERAL INFORMATION:
APPLICANT: Saylor, Gary S.
APPLICANT: Simpson, Michael L.
APPLICANT: Applegate, Bruce M.
APPLICANT: Ridd, Steven A.
TITLE OF INVENTION: IN VIVO BIOSENSOR APPARATUS AND METHOD OF USE
FILE REFERENCE: 4310,004300
CURRENT APPLICATION NUMBER: US/09/454,071
CURRENT FILING DATE: 1999-12-02
EARLIER APPLICATION NUMBER: 60/110,684
EARLIER FILING DATE: 1998-12-02
NUMBER OF SEQ ID NOS: 7
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 6
LENGTH: 370
TYPE: PRT
ORGANISM: Xenorhabdus luminescens
US-09-454-071-6
```

```
Query Match      75.9%: Score 41; DB 2; Length 370;
Best Local Similarity 100.0%; Pred. No. 16;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      4 EYRHYC 9
        |||||
Db       54 EYRHYC 59
```

```
RESULT 26
US-08-159-339A-134
Sequence 134, Application US/08159339A
Patent No. 6037135
GENERAL INFORMATION:
APPLICANT: Kubo, Ralph T.
APPLICANT: Grey, Howard M.
APPLICANT: Sette, Alessandro
APPLICANT: Celis, Esben
TITLE OF INVENTION: HLA Binding peptides and Their
TITLE OF INVENTION: Uses
NUMBER OF SEQUENCES: 1254
CORRESPONDENCE ADDRESS:
ADDRESS: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/159,339A
FILING DATE: 29-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 018623-005030US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
TELEX:
INFORMATION FOR SEQ ID NO: 134:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-159-339A-134
```

```
Query Match      74.1%: Score 40; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      2 ISEYRHY 8
        |||||
Db       1 ISEYRHY 7
```

```
RESULT 27
US-09-149-476-640
Sequence 640, Application US/09149476
Patent No. 6420526
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: 186 Human Secreted proteins
FILE REFERENCE: P2002P1
CURRENT APPLICATION NUMBER: US/09/149,476
CURRENT FILING DATE: 1998-09-08
EARLIER APPLICATION NUMBER: PCT/US98/04493
```

[illegible]

EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,589
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,593
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,614
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/043,578
EARLIER FILING DATE: 1997-04-11
EARLIER APPLICATION NUMBER: 60/043,576
EARLIER FILING DATE: 1997-04-11
EARLIER APPLICATION NUMBER: 60/047,501
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/043,670
EARLIER FILING DATE: 1997-04-11
EARLIER APPLICATION NUMBER: 60/056,632
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,664
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,876
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,881
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,909
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,875
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,862
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,887
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,908
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/048,964
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/057,650
EARLIER FILING DATE: 1997-09-05
EARLIER APPLICATION NUMBER: 60/056,884
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/057,669
EARLIER FILING DATE: 1997-09-05
EARLIER APPLICATION NUMBER: 60/049,610
EARLIER FILING DATE: 1997-06-13
EARLIER APPLICATION NUMBER: 60/061,060
EARLIER FILING DATE: 1997-10-02

Query Match 70.4%; Score 38; DB 2; Length 28;
Best Local Similarity 75.0%; Pred. No. 4.1;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ISEYRHYC 9
DB 4 ISQLRHYC 11

RESULT 28

US-09-270-767-33888
Sequence 33888, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 33888
LENGTH: 124
TYPE: PRT
ORGANISM: Drosophila melanogaster
FEATURE:
OTHER INFORMATION: Xaa means any amino acid

US-09-270-767-33888

Query Match 68.5%; Score 37; DB 2; Length 124;
Best Local Similarity 75.0%; Pred. No. 27;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 ISEYRHYC 9
DB 56 IYETHYHC 63

RESULT 29

US-09-489-039A-13995
Sequence 13995, Application US/09489039A
Patent No. 6610836
GENERAL INFORMATION:
APPLICANT: Gary Breton et. al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
FILE REFERENCE: 2709,2004001
CURRENT FILING DATE: 2000-01-27
PRIOR APPLICATION NUMBER: US 60/117,747
PRIOR FILING DATE: 1999-01-29
NUMBER OF SEQ ID NOS: 14342
SEQ ID NO 13995
LENGTH: 169
TYPE: PRT
ORGANISM: Klebsiella pneumoniae
US-09-489-039A-13995

Query Match 66.7%; Score 36; DB 2; Length 169;
Best Local Similarity 83.3%; Pred. No. 55;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 4 EYRHYC 9
DB 83 EYRHYC 88

RESULT 30

US-09-134-000C-3467
Sequence 3467, Application US/09134000C
Patent No. 6617156
GENERAL INFORMATION:
APPLICANT: Lynn Doucette-Stamm et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
FILE REFERENCE: 032796-032
CURRENT FILING DATE: 1998-08-13
PRIOR APPLICATION NUMBER: US 60/055,778
PRIOR FILING DATE: 1997-08-15
NUMBER OF SEQ ID NOS: 6812
SOFTWARE: Patentin version 3.1
SEQ ID NO 3467
LENGTH: 238
TYPE: PRT
ORGANISM: Enterococcus faecalis
US-09-134-000C-3467

Query Match 66.7%; Score 36; DB 2; Length 238;
Best Local Similarity 85.7%; Pred. No. 77;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 ISEYRHYC 8
DB 36 ISEYRHYC 42

RESULT 31

US-09-328-352-7708
Sequence 7708, Application US/09328352

Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; FILE REFERENCE: GTC99-03PA
; CURRENT APPLICATION NUMBER: US/09/328,352
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 7708
; LENGTH: 478
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
US-09-328-352-7708

Query Match 66.7%; Score 36; DB 2; Length 478;
Best Local Similarity 83.3%; Pred. No. 1.5e+02;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 EYRHYC 9
Db 96 EYRHYC 101

RESULT 32
US-09-926-820-1
; Sequence 1, Application US/09926820
; Patent No. 6939851
; GENERAL INFORMATION:
; APPLICANT: FORSMANN, WOLF-GEORG
; APPLICANT: MAGERT, HANS-JURGEN
; APPLICANT: STANDKER, LUDGER
; APPLICANT: KREUTZMANN, PETER
; TITLE OF INVENTION: SERINE PROTEASE INHIBITORS
; FILE REFERENCE: 10496-P67431USO
; CURRENT APPLICATION NUMBER: US/09/926,820
; CURRENT FILING DATE: 2002-05-06
; PRIOR APPLICATION NUMBER: PCT/EP99/04331
; PRIOR FILING DATE: 1999-06-22
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 1064
; TYPE: PRT
; ORGANISM: mammalian
US-09-926-820-1

Query Match 66.7%; Score 36; DB 2; Length 1064;
Best Local Similarity 100.0%; Pred. No. 3.4e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 SEYRHY 8
Db 568 SEYRHY 573

RESULT 33
US-08-286-819A-28
; Sequence 28, Application US/08286819A
; Patent No. 5871910
; GENERAL INFORMATION:
; APPLICANT: ARTHUR, MICHEL
; APPLICANT: DUKTA-MALEN, SYLVIE
; APPLICANT: MOLINAS, CATHERINE
; APPLICANT: COURVALIN, PATRICE
; TITLE OF INVENTION: POLYPEPTIDES IMPLICATED IN THE
; TITLE OF INVENTION: EXPRESSION OF RESISTANCE TO GLYCOPOLYMERES, IN PARTICULAR
; TITLE OF INVENTION: IN GRAM-POSITIVE BACTERIA, NUCLEOTIDE SEQUENCE CODING FOR
; TITLE OF INVENTION: THESE POLYPEPTIDES AND USE FOR DIAGNOSIS
; NUMBER OF SEQUENCES: 54
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
; ADDRESS: P.C.

STREET: 1755 S. Jefferson Davis Highway, Suite 400
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/286,819A
FILING DATE: 05-AUG-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/174,682
FILING DATE: 28-DEC-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/917,146
FILING DATE: 10-AUG-1992
CLASSIFICATION: 435

PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/FR/91/00855
FILING DATE: 29-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: FR 9013579
FILING DATE: 31-OCT-1990
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
NAME: Oblon, No. 5871910man F.
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 660-060-0 PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 413-3000
TELEFAX: (703) 413-2220

INFORMATION FOR SEQ ID NO: 28:
SEQUENCE CHARACTERISTICS:
LENGTH: 2254 amino acids
TYPE: amino acid
TOPOLOGY: linear

US-08-286-819A-28

Query Match 66.7%; Score 36; DB 1; Length 2254;
Best Local Similarity 83.3%; Pred. No. 7.2e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 4 EYRHYC 9
Db 1133 EYRHYC 1138

RESULT 34
US-08-980-357-28
; Sequence 28, Application US/08980357
; Patent No. 6013508
; GENERAL INFORMATION:
; APPLICANT: ARTHUR, MICHEL
; APPLICANT: DUKTA-MALEN, SYLVIE
; APPLICANT: MOLINAS, CATHERINE
; APPLICANT: COURVALIN, PATRICE
; TITLE OF INVENTION: POLYPEPTIDES IMPLICATED IN THE
; TITLE OF INVENTION: EXPRESSION OF RESISTANCE TO GLYCOPOLYMERES, IN PARTICULAR
; TITLE OF INVENTION: IN GRAM-POSITIVE BACTERIA, NUCLEOTIDE SEQUENCE CODING FOR
; TITLE OF INVENTION: THESE POLYPEPTIDES AND USE FOR DIAGNOSIS
; NUMBER OF SEQUENCES: 54
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
; STREET: 1755 S. Jefferson Davis Highway, Suite 400
; CITY: Arlington

STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/980,357
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/286,819
FILING DATE: 05-AUG-1994
APPLICATION NUMBER: US 08/174,682
FILING DATE: 28-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/917,146
FILING DATE: 10-AUG-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/FR/91/00855
FILING DATE: 29-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: FR 9013579
FILING DATE: 31-OCT-1990
ATTORNEY/AGENT INFORMATION:
NAME: Oblon, No. 6013508man F.
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 660-060-0 PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 413-3000
TELEFAX: (703) 413-2220
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 28:
SEQUENCE CHARACTERISTICS:
LENGTH: 2254 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-980-357-28

Query Match 66.7%; Score 36; DB 2; Length 2254;
Best Local Similarity 83.3%; Pred. No. 7.2e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 4 EYRHYC 9
DB 1133 EHRHYC 1138

RESULT 35
US-09-357-375-28
Sequence 28, Application US/09357375
Patent No. 6916906
GENERAL INFORMATION:
APPLICANT: ARTHUR, MICHEL
APPLICANT: DIKITA-MALEN, SYLVIE
APPLICANT: MOLINAS, CATHERINE
APPLICANT: COURVALIN, PATRICE
TITLE OF INVENTION: POLYPEPTIDES IMPLICATED IN THE
TITLE OF INVENTION: EXPRESSION OF RESISTANCE TO GLYCOPROTEINS, IN PARTICULAR
TITLE OF INVENTION: IN GRAM-POSITIVE BACTERIA, NUCLEOTIDE SEQUENCE CODING FOR
TITLE OF INVENTION: THESE POLYPEPTIDES AND USE FOR DIAGNOSIS
NUMBER OF SEQUENCES: 54
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
ADDRESS: P.C.
STREET: 1755 S. Jefferson Davis Highway, Suite 400
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/357,375
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/286,819
FILING DATE: 05-AUG-1994
APPLICATION NUMBER: US 08/174,682
FILING DATE: 28-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/917,146
FILING DATE: 10-AUG-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/FR/91/00855
FILING DATE: 29-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: FR 9013579
FILING DATE: 31-OCT-1990
ATTORNEY/AGENT INFORMATION:
NAME: Oblon, No. 6916906man F.
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 660-060-0 PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 413-3000
TELEFAX: (703) 413-2220
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 28:
SEQUENCE CHARACTERISTICS:
LENGTH: 2254 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-357-375-28

Query Match 66.7%; Score 36; DB 2; Length 2254;
Best Local Similarity 83.3%; Pred. No. 7.2e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 4 EYRHYC 9
DB 1133 EHRHYC 1138

RESULT 36
US-09-051-624A-3
Sequence 3, Application US/09051624A
Patent No. 6232288
GENERAL INFORMATION:
APPLICANT: Kojima, Itaru
TITLE OF INVENTION: COMPOSITION FOR IMPROVING PANCREATIC
TITLE OF INVENTION: FUNCTION
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: DIKE, BRONSTEIN, ROBERTS & CUSHMAN, LLP
STREET: 130 Water Street
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/051,624A
FILING DATE: 15-APR-1998
CLASSIFICATION: 514

PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/JP96/03277
FILING DATE: 08-NOV-1996
ATTORNEY/AGENT INFORMATION:
NAME: Lowen, Cara Z.
REGISTRATION NUMBER: 38,227
REFERENCE/DOCKET NUMBER: 48210
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-523-3400
TELEFAX: 617-523-6440
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 14 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-051-624A-3

Query Match 64.8%; Score 35; DB 2; Length 14;
Best Local Similarity 66.7%; Pred. No. 7;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Oy 4 EYRHYC 9
:|:|
Db 8 QYKHYC 13

RESULT 37
US-09-857-815B-58
Sequence 58, Application US/09857815B
Patent No. 6625165
GENERAL INFORMATION:
APPLICANT: Takeda Chemical Industries, Ltd.
TITLE OF INVENTION: Betacellulin Mutain
FILE REFERENCE: P2001-232
CURRENT APPLICATION NUMBER: US/09/857,815B
CURRENT FILING DATE: 2001-06-08
PRIOR APPLICATION NUMBER: JP 10-350377
PRIOR FILING DATE: 1998-12-09
PRIOR APPLICATION NUMBER: JP 11-55326
PRIOR FILING DATE: 1999-03-03
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 58
LENGTH: 36
TYPE: PRT
ORGANISM: Human
US-09-857-815B-58

Query Match 64.8%; Score 35; DB 2; Length 36;
Best Local Similarity 66.7%; Pred. No. 18;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Oy 4 EYRHYC 9
:|:|
Db 1 QYKHYC 6

RESULT 38
US-09-857-815B-60
Sequence 60, Application US/09857815B
Patent No. 6625165
GENERAL INFORMATION:
APPLICANT: Takeda Chemical Industries, Ltd.
TITLE OF INVENTION: Betacellulin Mutain
FILE REFERENCE: P2001-232
CURRENT APPLICATION NUMBER: US/09/857,815B
CURRENT FILING DATE: 2001-06-08
PRIOR APPLICATION NUMBER: JP 10-350377
PRIOR FILING DATE: 1998-12-09
PRIOR APPLICATION NUMBER: JP 11-55326
PRIOR FILING DATE: 1999-03-03
NUMBER OF SEQ ID NOS: 64

SEQ ID NO 60
LENGTH: 39
TYPE: PRT
ORGANISM: Human
US-09-857-815B-60

Query Match 64.8%; Score 35; DB 2; Length 39;
Best Local Similarity 66.7%; Pred. No. 19;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Oy 4 EYRHYC 9
:|:|
Db 8 QYKHYC 9

RESULT 39
US-08-899-437-11
Sequence 11, Application US/08899437
Patent No. 6121415
GENERAL INFORMATION:
APPLICANT: Godowski, Paul J., Mark, Melanie Rose, Zhang, Dong Xiao
TITLE OF INVENTION: ErbB Receptor-Specific Neuregulin Related
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 1 DNA Way
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatIn (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/899,437
FILING DATE: 24-Jul-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Conley, Delidre L.
REGISTRATION NUMBER: 36,487
REFERENCE/DOCKET NUMBER: P1084R1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650/225-2066
TELEFAX: 650/952-9881
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 45 amino acids
TYPE: Amino Acid
TOPOLOGY: Linear
FEATURE:
NAME/KEY: hBRC.efg
LOCATION: 1-45
IDENTIFICATION METHOD:
OTHER INFORMATION:
US-08-899-437-11

Query Match 64.8%; Score 35; DB 2; Length 45;
Best Local Similarity 66.7%; Pred. No. 22;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Oy 4 EYRHYC 9
:|:|
Db 8 QYKHYC 13

RESULT 40
US-09-126-121-11
Sequence 11, Application US/09126121
Patent No. 6252051
GENERAL INFORMATION:

APPLICANT: Godowski, Paul J., Mark, Melanie Rose, Zhang, Dong Xiao
TITLE OF INVENTION: ErbB Receptor-Specific Neuregulin Related
TITLE OF INVENTION: Ligands and Uses Therefor
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 1 DNA Way
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatIn (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/126,121
FILING DATE: 30-Jul-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Conley, Delidre L.
REGISTRATION NUMBER: 36,487
REFERENCE/DOCKET NUMBER: P1084R1D1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650/225-2066
TELEFAX: 650/952-9881
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 45 amino acids
TYPE: Amino Acid
TOPOLOGY: Linear
FEATURE:
NAME/KEY: hBTC.efg
LOCATION: 1-45
IDENTIFICATION METHOD:
OTHER INFORMATION:
US-09-126-121-11
Query Match 64.8%; Score 35; DB 2; Length 45;
Best Local Similarity 66.7%; Pred. No. 22;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 4 EYRHYC 9
:|:|:|
Db 8 QYKHYC 13
RESULT 41
US-08-915-096A-12
Sequence 12, Application US/08915096A
Patent No. 6265543
GENERAL INFORMATION:
APPLICANT: Weisner, Paul S.
APPLICANT: Fuldner, Rebecca A.
APPLICANT: Adams, Mark D.
TITLE OF INVENTION: Transforming Growth Factor Alpha HI
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: Human Genome Sciences, Inc.
STREET: 9410 Key West Avenue
CITY: Rockville
STATE: MD
COUNTRY: USA
ZIP: 20850
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/915,096A
FILING DATE: 20-AUG-1997

CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/468,846
FILING DATE: 06-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/208,008
FILING DATE: 08-MAR-1994
ATTORNEY/AGENT INFORMATION:
NAME: Brookes, A. Anders
REGISTRATION NUMBER: 36,373
REFERENCE/DOCKET NUMBER: PFI10D1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 301-309-8504
TELEX: 301-309-8439
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 46 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-915-096A-12
Query Match 64.8%; Score 35; DB 2; Length 46;
Best Local Similarity 66.7%; Pred. No. 23;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 4 EYRHYC 9
:|:|:|
Db 9 QYKHYC 14

RESULT 42
US-09-553-769-10
Sequence 10, Application US/09553769
Patent No. 6544759
GENERAL INFORMATION:
APPLICANT: Harari, Daniel
APPLICANT: Yarden, Yosef
TITLE OF INVENTION: NOVEL GROWTH FACTOR WHICH ACTS THROUGH ERBB-4 RECEPTOR TYROSINE K
FILE REFERENCE: 00/20522
CURRENT APPLICATION NUMBER: US/09/553,769
CURRENT FILING DATE: 2000-04-21
NUMBER OF SEQ ID NOS: 18
SOFTWARE: PatentIn version 3.0
SEQ ID NO 10
LENGTH: 46
TYPE: PRT
ORGANISM: Mus musculus
US-09-553-769-10
Query Match 64.8%; Score 35; DB 2; Length 46;
Best Local Similarity 66.7%; Pred. No. 23;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 4 EYRHYC 9
:|:|:|
Db 9 QYKHYC 14
RESULT 43
US-09-857-815B-4
Sequence 4, Application US/09857815B
Patent No. 6825165
GENERAL INFORMATION:
APPLICANT: Takeda Chemical Industries, Ltd.
TITLE OF INVENTION: Betacellulin Mucin
FILE REFERENCE: P2001-232
CURRENT APPLICATION NUMBER: US/09/857,815B
CURRENT FILING DATE: 2001-06-08
PRIOR APPLICATION NUMBER: JP 10-350377
PRIOR FILING DATE: 1998-12-09

;; PRIOR APPLICATION NUMBER: JP 11-55326
;; PRIOR FILING DATE: 1999-03-03
;; NUMBER OF SEQ ID NOS: 64
;; SEQ ID NO 4
;; LENGTH: 46
;; TYPE: PRT
;; ORGANISM: Human
US-09-857-815B-4

Query Match 64.8%; Score 35; DB 2; Length 46;
Best Local Similarity 66.7%; Pred. No. 23;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 4 EYRHYC 9
:|||||
Db 11 QYKHYC 16

RESULT 44
US-09-857-815B-3
; Sequence 3, Application US/09857815B
; Patent No. 6825165
; GENERAL INFORMATION:
; APPLICANT: Takeda Chemical Industries, Ltd.
; TITLE OF INVENTION: Betacellulin Mucin
; FILE REFERENCE: P2001-232
; CURRENT APPLICATION NUMBER: US/09/857,815B
; CURRENT FILING DATE: 2001-06-08
; PRIOR APPLICATION NUMBER: JP 11-550377
; PRIOR FILING DATE: 1998-12-09
; PRIOR APPLICATION NUMBER: JP 11-55326
; PRIOR FILING DATE: 1999-03-03
; NUMBER OF SEQ ID NOS: 64
; SEQ ID NO 3
; LENGTH: 47
; TYPE: PRT
; ORGANISM: Human
US-09-857-815B-3

Query Match 64.8%; Score 35; DB 2; Length 47;
Best Local Similarity 66.7%; Pred. No. 23;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 4 EYRHYC 9
:|||||
Db 11 QYKHYC 16

RESULT 45
US-09-857-815B-12
; Sequence 12, Application US/09857815B
; Patent No. 6825165
; GENERAL INFORMATION:
; APPLICANT: Takeda Chemical Industries, Ltd.
; TITLE OF INVENTION: Betacellulin Mucin
; FILE REFERENCE: P2001-232
; CURRENT APPLICATION NUMBER: US/09/857,815B
; CURRENT FILING DATE: 2001-06-08
; PRIOR APPLICATION NUMBER: JP 11-550377
; PRIOR FILING DATE: 1998-12-09
; PRIOR APPLICATION NUMBER: JP 11-55326
; PRIOR FILING DATE: 1999-03-03
; NUMBER OF SEQ ID NOS: 64
; SEQ ID NO 12
; LENGTH: 47
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: amino acid sequence of betacellulin mucin (BTC 31-76, 78)
US-09-857-815B-12

Query Match 64.8%; Score 35; DB 2; Length 47;
Best Local Similarity 66.7%; Pred. No. 23;

Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 4 EYRHYC 9
:|||||
Db 11 QYKHYC 16

RESULT 46
US-08-465-794-3
; Sequence 3, Application US/08465794
; Patent No. 5886141
; GENERAL INFORMATION:
; APPLICANT: FOLKMAN, MOSES J.
; APPLICANT: SHING, YUEN
; APPLICANT: IGARASHI, KOICHI
; TITLE OF INVENTION: SMOOTH MUSCLE MITOGEN AND ISOLATED DNA
; TITLE OF INVENTION: CODING THEREFORE
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: DAVID G. CONLIN, DIKE, BRONSTEIN, ROBERTS &
; ADDRESSEE: CUSHMAN
; STREET: 130 WATER STREET
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: US
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/465,794
; FILING DATE:
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/007,126
; FILING DATE: 21-JAN-1993
; APPLICATION NUMBER: US 07/994,776
; FILING DATE: 22-DEC-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/872,597
; FILING DATE: 23-APR-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/872,792
; FILING DATE: 23-APR-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/833,552
; FILING DATE: 10-FEB-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/832,939
; FILING DATE: 10-FEB-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/766,354
; FILING DATE: 26-SEP-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/604,778
; FILING DATE: 26-OCT-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: RESNICK, DAVID S.
; REGISTRATION NUMBER: 34235
; REFERENCE/DOCKET NUMBER: 40435-CIP-8
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 523-3400
; TELEFAX: (617) 523-6440
; TELEX: 200291 STRE UR
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 48 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
US-08-465-794-3

Query Match 64.8%; Score 35; DB 1; Length 48;
Best Local Similarity 66.7%; Pred. No. 24;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 4 EYRHYC 9
: : : : :
DB 9 QYKHYC 14

RESULT 47

US-09-049-813-3

Sequence 3, Application US/09049813

Patent No. 6013762

GENERAL INFORMATION:

APPLICANT: FOLKMAN, MOSES J.

APPLICANT: SHING, YUEN

APPLICANT: IGARASHI, KOICHI

TITLE OF INVENTION: SMOOTH MUSCLE MITOGEN AND ISOLATED DNA

TITLE OF INVENTION: CODING THEREFORE

NUMBER OF SEQUENCES: 18

CORRESPONDENCE ADDRESSES:

ADDRESSEE: DAVID G. CONLIN; DIKE, BRONSTEIN, ROBERTS &

ADDRESS: CUSHMAN

STREET: 130 WATER STREET

CITY: BOSTON

STATE: MASSACHUSETTS

COUNTRY: US

ZIP: 02109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/049,813

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/465,794

FILING DATE:

APPLICATION NUMBER: US 08/007,126

FILING DATE: 21-JAN-1993

APPLICATION NUMBER: US 07/994,776

FILING DATE: 22-DEC-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/872,597

FILING DATE: 23-APR-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/872,792

FILING DATE: 23-APR-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/833,552

FILING DATE: 10-FEB-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/832,939

FILING DATE: 10-FEB-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/766,354

FILING DATE: 26-SEP-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/604,778

FILING DATE: 26-OCT-1990

ATTORNEY/AGENT INFORMATION:

NAME: RESNICK, DAVID S.

REGISTRATION NUMBER: 34235

REFERENCE/DOCKET NUMBER: 40435-CIP-8

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 523-3400

TELEFAX: (617) 523-6440

TELEX: 200291 STRE UR

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 48 amino acids

TYPE: amino acid
TOPOLOGY: linear
US-09-049-813-3

Query Match 64.8%; Score 35; DB 2; Length 48;
Best Local Similarity 66.7%; Pred. No. 24;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 4 EYRHYC 9
: : : : :
DB 9 QYKHYC 14

RESULT 48

US-09-857-815B-11

Sequence 11, Application US/09857815B

Patent No. 6825165

GENERAL INFORMATION:

APPLICANT: Takeda Chemical Industries, Ltd.

FILE REFERENCE: P2001-232

CURRENT APPLICATION NUMBER: US/09/857,815B

CURRENT FILING DATE: 2001-06-08

PRIOR APPLICATION NUMBER: JP 10-350377

PRIOR FILING DATE: 1998-12-09

PRIOR APPLICATION NUMBER: JP 11-55326

PRIOR FILING DATE: 1999-03-03

NUMBER OF SEQ ID NOS: 64

SEQ ID NO 11

LENGTH: 48

TYPE: PRT

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: amino acid sequence of betacellulin mutein (BTC 31-76, 78, 79)

US-09-857-815B-11

Query Match 64.8%; Score 35; DB 2; Length 48;
Best Local Similarity 66.7%; Pred. No. 24;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 4 EYRHYC 9
: : : : :
DB 11 QYKHYC 16

RESULT 49

US-09-857-815B-14

Sequence 14, Application US/09857815B

Patent No. 6825165

GENERAL INFORMATION:

APPLICANT: Takeda Chemical Industries, Ltd.

FILE REFERENCE: P2001-232

CURRENT APPLICATION NUMBER: US/09/857,815B

CURRENT FILING DATE: 2001-06-08

PRIOR APPLICATION NUMBER: JP 10-350377

PRIOR FILING DATE: 1998-12-09

PRIOR APPLICATION NUMBER: JP 11-55326

PRIOR FILING DATE: 1999-03-03

NUMBER OF SEQ ID NOS: 64

SEQ ID NO 14

LENGTH: 48

TYPE: PRT

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: amino acid sequence of betacellulin mutein (BTC 31-77, 79)

US-09-857-815B-14

Query Match 64.8%; Score 35; DB 2; Length 48;
Best Local Similarity 66.7%; Pred. No. 24;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 4 EYRHYC 9

Db :|||
11 QYKHYC 16

RESULT 50
US-09-857-815B-45
; Sequence 45, Application US/09857815B
; Patent No. 6825165
; GENERAL INFORMATION:
; APPLICANT: Takeda Chemical Industries, Ltd.
; TITLE OF INVENTION: Betacellulin Mutein
; FILE REFERENCE: P2001-232
; CURRENT APPLICATION NUMBER: US/09/857,815B
; FILING DATE: 2001-06-08
; PRIOR APPLICATION NUMBER: JP 10-350377
; PRIOR FILING DATE: 1998-12-09
; PRIOR APPLICATION NUMBER: JP 11-55326
; PRIOR FILING DATE: 1999-03-03
; NUMBER OF SEQ ID NOS: 64
; SEQ ID NO 45
; LENGTH: 48
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: amino acid sequence of betacellulin mutein (asn, ser, asp, ser, c
US-09-857-815B-45

Query Match 64.8%; Score 35; DB 2; Length 48;
Best Local Similarity 66.7%; Pred. No. 24;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 4 EYRHYC 9
:|||
Db 9 QYKHYC 14

Search completed: May 5, 2006, 03:13:26
Job time : 23.7 secs

GenCore version 5.1.7
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OW protein - protein search, using SW model

Run on: May 5, 2006, 07:56:48 ; Search time 56 Seconds
(without alignments)
67.151 Million cell updates/sec

Title: US-08-170-344-11
Perfect score: 54
Sequence: 1 KISERYHXC 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues
Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database :
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2: /cgn2_6/prodata/1/pubppaa/US08_PUBCOMB.pep:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	54	100.0	10	US-10-751-845-76	Sequence 76, App1
3	54	100.0	15	US-10-476-570-31	Sequence 31, App1
4	54	100.0	15	US-10-476-570-32	Sequence 32, App1
5	54	100.0	20	US-10-476-570-12	Sequence 12, App1
6	54	100.0	23	US-10-751-845-66	Sequence 66, App1
7	54	100.0	117	US-10-751-845-126	Sequence 126, App
8	54	100.0	151	US-10-177-390-6	Sequence 6, App1
9	54	100.0	151	US-10-484-063-20	Sequence 20, App1
10	54	100.0	151	US-10-484-063-27	Sequence 27, App1
11	54	100.0	158	US-10-858-384-2	Sequence 2, App1
12	54	100.0	158	US-10-367-057-16	Sequence 16, App1
13	54	100.0	158	US-11-021-949-13	Sequence 13, App1
14	54	100.0	171	US-10-472-724-2	Sequence 2, App1
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16	54	100.0	237	US-10-751-845-158	Sequence 158, App
17	54	100.0	243	US-11-072-288-1	Sequence 1, App1
18	54	100.0	261	US-10-751-845-160	Sequence 160, App
19	54	100.0	266	US-09-367-309A-1	Sequence 1, App1
20	54	100.0	273	US-10-000-903-4	Sequence 4, App1
21	54	100.0	273	US-10-899-771-4	Sequence 4, App1
22	54	100.0	292	US-10-000-903-10	Sequence 10, App1
23	54	100.0	292	US-10-899-771-10	Sequence 10, App1
24	54	100.0	371	US-10-000-903-6	Sequence 6, App1
25	54	100.0	371	US-10-899-771-6	Sequence 6, App1
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33	45	83.3	15	US-10-476-570-33	Sequence 33, App1
34	45	83.3	148	US-11-021-949-17	Sequence 17, App1
35	45	83.3	149	US-11-021-949-15	Sequence 15, App1
36	45	83.3	149	US-11-021-949-16	Sequence 16, App1
37	41	75.9	9	US-10-239-313A-313	Sequence 313, App
38	41	75.9	9	US-10-751-845-86	Sequence 86, App1
39	41	75.9	10	US-10-751-845-93	Sequence 93, App1
40	39	72.2	112	US-10-425-115-249267	Sequence 249267, A
41	39	72.2	147	US-10-425-115-308652	Sequence 308652, A
42	39	72.2	1815	US-11-097-143-31596	Sequence 31596, A
43	38	70.4	28	US-09-809-391-640	Sequence 640, App
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45	38	70.4	28	US-10-164-861-640	Sequence 640, App
46	38	70.4	113	US-10-264-237-2295	Sequence 2295, App
47	38	70.4	180	US-10-408-765A-1288	Sequence 1288, App
48	38	70.4	198	US-10-001-054-40	Sequence 40, App1
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62	38	70.4	198	US-10-230-163-226	Sequence 226, App
63	38	70.4	198	US-10-230-338-226	Sequence 226, App
64	38	70.4	198	US-10-142-419-550	Sequence 550, App
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102	38	70.4	198	4	US-10-137-872A-550	Sequence 550, App	175	38	70.4	198	4	US-10-127-833A-550	Sequence 550, App
103	38	70.4	198	4	US-10-147-500-550	Sequence 550, App	176	38	70.4	198	4	US-10-127-834A-550	Sequence 550, App
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105	38	70.4	198	4	US-10-147-515-550	Sequence 550, App	178	38	70.4	198	4	US-10-127-841A-550	Sequence 550, App
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107	38	70.4	198	4	US-10-147-526-550	Sequence 550, App	180	38	70.4	198	4	US-10-128-687A-550	Sequence 550, App
108	38	70.4	198	4	US-10-147-527-550	Sequence 550, App	181	38	70.4	198	4	US-10-128-688A-550	Sequence 550, App
109	38	70.4	198	4	US-10-121-041-550	Sequence 550, App	182	38	70.4	198	4	US-10-128-689A-550	Sequence 550, App
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118	38	70.4	198	4	US-10-124-817-550	Sequence 550, App	191	38	70.4	198	4	US-10-219-481-226	Sequence 226, App
119	38	70.4	198	4	US-10-125-922-550	Sequence 550, App	192	38	70.4	198	4	US-10-230-260-226	Sequence 226, App
120	38	70.4	198	4	US-10-125-924-550	Sequence 550, App	193	38	70.4	198	4	US-10-232-231-226	Sequence 226, App
121	38	70.4	198	4	US-10-140-860-550	Sequence 550, App	194	38	70.4	198	4	US-10-232-223-226	Sequence 226, App
122	38	70.4	198	4	US-10-142-417-550	Sequence 550, App	195	38	70.4	198	4	US-10-131-815A-550	Sequence 550, App
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125	38	70.4	198	4	US-10-152-395-550	Sequence 550, App	198	38	70.4	198	4	US-10-131-822A-550	Sequence 550, App
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138	38	70.4	198	4	US-10-127-849A-550	Sequence 550, App	211	38	70.4	198	4	US-10-233-205-226	Sequence 226, App
139	38	70.4	198	4	US-10-127-850A-550	Sequence 550, App	212	38	70.4	198	4	US-10-121-04-550	Sequence 550, App
140	38	70.4	198	4	US-10-127-851A-550	Sequence 550, App	213	38	70.4	198	4	US-10-219-072-226	Sequence 226, App
141	38	70.4	198	4	US-10-128-684A-550	Sequence 550, App	214	38	70.4	198	4	US-10-219-474-226	Sequence 226, App
142	38	70.4	198	4	US-10-128-686A-550	Sequence 550, App	215	38	70.4	198	4	US-10-219-524-226	Sequence 226, App
143	38	70.4	198	4	US-10-128-690A-550	Sequence 550, App	216	38	70.4	198	4	US-10-219-528-226	Sequence 226, App
144	38	70.4	198	4	US-10-128-691A-550	Sequence 550, App	217	38	70.4	198	4	US-10-219-528-226	Sequence 226, App
145	38	70.4	198	4	US-10-131-819A-550	Sequence 550, App	218	38	70.4	198	4	US-10-227-880-226	Sequence 226, App
146	38	70.4	198	4	US-10-131-829A-550	Sequence 550, App	219	38	70.4	198	4	US-10-227-881-226	Sequence 226, App
147	38	70.4	198	4	US-10-131-836A-550	Sequence 550, App	220	38	70.4	198	4	US-10-227-882-226	Sequence 226, App
148	38	70.4	198	4	US-10-146-729-550	Sequence 550, App	221	38	70.4	198	4	US-10-230-436-226	Sequence 226, App
149	38	70.4	198	4	US-10-146-791-550	Sequence 550, App	222	38	70.4	198	4	US-10-232-223-226	Sequence 226, App
150	38	70.4	198	4	US-10-147-484-550	Sequence 550, App	223	38	70.4	198	4	US-10-232-225-226	Sequence 226, App
151	38	70.4	198	4	US-10-147-508-550	Sequence 550, App	224	38	70.4	198	4	US-10-232-227-226	Sequence 226, App
152	38	70.4	198	4	US-10-147-512-550	Sequence 550, App	225	38	70.4	198	4	US-10-232-229-226	Sequence 226, App
153	38	70.4	198	4	US-10-147-512-550	Sequence 550, App	226	38	70.4	198	4	US-10-232-234-226	Sequence 226, App
154	38	70.4	198	4	US-10-121-040-550	Sequence 550, App	227	38	70.4	198	4	US-10-219-060-226	Sequence 226, App
155	38	70.4	198	4	US-10-121-056-550	Sequence 550, App	228	38	70.4	198	4	US-10-123-911-550	Sequence 226, App
156	38	70.4	198	4	US-10-121-061-550	Sequence 550, App	229	38	70.4	198	4	US-10-223-085-226	Sequence 226, App
157	38	70.4	198	4	US-10-123-235-550	Sequence 550, App	230	38	70.4	198	4	US-10-216-160-226	Sequence 226, App
158	38	70.4	198	4	US-10-124-818-550	Sequence 550, App	231	38	70.4	198	4	US-10-216-162-226	Sequence 226, App
159	38	70.4	198	4	US-10-137-868-550	Sequence 550, App	232	38	70.4	198	4	US-10-216-164-226	Sequence 226, App
160	38	70.4	198	4	US-10-147-492-550	Sequence 550, App	233	38	70.4	198	4	US-10-216-167-226	Sequence 226, App
161	38	70.4	198	4	US-10-158-782-550	Sequence 550, App	234	38	70.4	198	4	US-10-216-168-226	Sequence 226, App
162	38	70.4	198	4	US-10-123-905-550	Sequence 550, App	235	38	70.4	198	4	US-10-219-065-226	Sequence 226, App
163	38	70.4	198	4	US-10-123-907-550	Sequence 550, App	236	38	70.4	198	4	US-10-219-071-226	Sequence 226, App
164	38	70.4	198	4	US-10-124-815-550	Sequence 550, App	237	38	70.4	198	4	US-10-219-074-226	Sequence 226, App
165	38	70.4	198	4	US-10-125-921A-550	Sequence 550, App	238	38	70.4	198	4	US-10-219-077-226	Sequence 226, App
166	38	70.4	198	4	US-10-125-928A-550	Sequence 550, App	239	38	70.4	198	4	US-10-219-465-226	Sequence 226, App
167	38	70.4	198	4	US-10-127-821A-550	Sequence 550, App	240	38	70.4	198	4	US-10-219-467-226	Sequence 226, App
168	38	70.4	198	4	US-10-127-822A-550	Sequence 550, App	241	38	70.4	198	4	US-10-219-467-226	Sequence 226, App
169	38	70.4	198	4	US-10-127-824A-550	Sequence 550, App	242	38	70.4	198	4	US-10-219-473-226	Sequence 226, App
170	38	70.4	198	4	US-10-127-826A-550	Sequence 550, App	243	38	70.4	198	4	US-10-219-477-226	Sequence 226, App
171	38	70.4	198	4	US-10-127-827A-550	Sequence 550, App	244	38	70.4	198	4	US-10-219-477-226	Sequence 226, App
172	38	70.4	198	4	US-10-127-828A-550	Sequence 550, App	245	38	70.4	198	4	US-10-219-484-226	Sequence 226, App
173	38	70.4	198	4	US-10-127-830A-550	Sequence 550, App	246	38	70.4	198	4	US-10-227-874-226	Sequence 226, App

247	38	70.4	198	4	US-10-227-876-226	Sequence 226, App	320	38	70.4	198	4	US-10-145-631-550	Sequence 550, App
248	38	70.4	198	4	US-10-227-878-226	Sequence 226, App	321	38	70.4	198	4	US-10-150-783-550	Sequence 550, App
249	38	70.4	198	4	US-10-229-974-226	Sequence 226, App	322	38	70.4	198	4	US-10-140-274-550	Sequence 550, App
250	38	70.4	198	4	US-10-230-924-226	Sequence 226, App	323	38	70.4	198	4	US-10-140-019-550	Sequence 550, App
251	38	70.4	198	4	US-10-230-113-226	Sequence 226, App	324	38	70.4	198	4	US-10-140-022-550	Sequence 550, App
252	38	70.4	198	4	US-10-230-183-226	Sequence 226, App	325	38	70.4	198	4	US-10-140-061-550	Sequence 550, App
253	38	70.4	198	4	US-10-230-234-226	Sequence 226, App	326	38	70.4	198	4	US-10-141-682-550	Sequence 550, App
254	38	70.4	198	4	US-10-230-306-226	Sequence 226, App	327	38	70.4	198	4	US-10-141-697-550	Sequence 550, App
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261	38	70.4	198	4	US-10-192-007-550	Sequence 550, App	334	38	70.4	198	4	US-10-142-427-550	Sequence 550, App
262	38	70.4	198	4	US-10-194-359-550	Sequence 550, App	335	38	70.4	198	4	US-10-142-760-550	Sequence 550, App
263	38	70.4	198	4	US-10-223-084-298	Sequence 298, App	336	38	70.4	198	4	US-10-142-821-550	Sequence 550, App
264	38	70.4	198	4	US-10-223-088-298	Sequence 298, App	337	38	70.4	198	4	US-10-145-531-550	Sequence 550, App
265	38	70.4	198	4	US-10-223-090-298	Sequence 298, App	338	38	70.4	198	4	US-10-152-531-550	Sequence 550, App
266	38	70.4	198	4	US-10-219-070-226	Sequence 226, App	339	38	70.4	198	4	US-10-212-163-226	Sequence 226, App
267	38	70.4	198	4	US-10-219-472-226	Sequence 226, App	340	38	70.4	198	4	US-10-127-840A-550	Sequence 550, App
268	38	70.4	198	4	US-10-219-527-226	Sequence 226, App	341	38	70.4	198	4	US-10-142-424-550	Sequence 550, App
269	38	70.4	198	4	US-10-227-877-226	Sequence 226, App	342	38	70.4	198	4	US-10-142-761-550	Sequence 550, App
270	38	70.4	198	4	US-10-223-087-298	Sequence 298, App	343	38	70.4	198	4	US-10-142-763-550	Sequence 550, App
271	38	70.4	198	4	US-10-127-847A-550	Sequence 550, App	344	38	70.4	198	4	US-10-142-765-550	Sequence 550, App
272	38	70.4	198	4	US-10-223-083-298	Sequence 226, App	345	38	70.4	198	4	US-10-142-861-550	Sequence 550, App
273	38	70.4	198	4	US-10-223-083-298	Sequence 226, App	346	38	70.4	198	4	US-10-142-888-550	Sequence 550, App
274	38	70.4	198	4	US-10-216-166-226	Sequence 226, App	347	38	70.4	198	4	US-10-142-888-550	Sequence 550, App
275	38	70.4	198	4	US-10-118-612-226	Sequence 226, App	348	38	70.4	198	4	US-10-142-888-550	Sequence 550, App
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278	38	70.4	198	4	US-10-146-727-550	Sequence 550, App	351	38	70.4	198	4	US-10-144-997-550	Sequence 550, App
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283	38	70.4	198	4	US-10-140-807-550	Sequence 550, App	356	38	70.4	198	4	US-10-145-630-550	Sequence 550, App
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286	38	70.4	198	4	US-10-141-698-550	Sequence 550, App	359	38	70.4	198	4	US-10-145-754-550	Sequence 550, App
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289	38	70.4	198	4	US-10-142-421-550	Sequence 550, App	362	38	70.4	198	4	US-10-145-818-550	Sequence 550, App
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319	38	70.4	198	4	US-10-140-922-550	Sequence 550, App	392	38	70.4	198	4	US-10-147-514-550	Sequence 550, App

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397	38	70.4	198	4	US-10-156-847-550	Sequence 550, App	470	38	70.4	198	4	US-10-145-874-550	Sequence 550, App
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416	38	70.4	198	4	US-10-157-797-550	Sequence 550, App	489	38	70.4	198	4	US-10-152-825-550	Sequence 550, App
417	38	70.4	198	4	US-10-158-491-550	Sequence 550, App	490	38	70.4	198	4	US-10-152-393-550	Sequence 550, App
418	38	70.4	198	4	US-10-142-762-550	Sequence 550, App	491	38	70.4	198	4	US-10-153-396-550	Sequence 550, App
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422	38	70.4	198	4	US-10-145-627-550	Sequence 550, App	495	38	70.4	198	4	US-10-156-842-550	Sequence 550, App
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426	38	70.4	198	4	US-10-147-483-550	Sequence 550, App	499	38	70.4	198	4	US-10-121-048-550	Sequence 550, App
427	38	70.4	198	4	US-10-147-496-550	Sequence 550, App	500	38	70.4	198	4	US-10-121-052-550	Sequence 550, App
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429	38	70.4	198	4	US-10-147-516-550	Sequence 550, App	502	38	70.4	198	4	US-10-121-054-550	Sequence 550, App
430	38	70.4	198	4	US-10-152-398-550	Sequence 550, App	503	38	70.4	198	4	US-10-121-063-550	Sequence 550, App
431	38	70.4	198	4	US-10-139-980-550	Sequence 550, App	504	38	70.4	198	4	US-10-123-212-550	Sequence 550, App
432	38	70.4	198	4	US-10-145-750-550	Sequence 550, App	505	38	70.4	198	4	US-10-123-213-550	Sequence 550, App
433	38	70.4	198	4	US-10-152-373-550	Sequence 550, App	506	38	70.4	198	4	US-10-123-291-550	Sequence 550, App
434	38	70.4	198	4	US-10-223-081-298	Sequence 298, App	507	38	70.4	198	4	US-10-123-322-550	Sequence 550, App
435	38	70.4	198	4	US-10-218-765-550	Sequence 226, App	508	38	70.4	198	4	US-10-123-771-550	Sequence 550, App
436	38	70.4	198	4	US-10-219-063-550	Sequence 226, App	509	38	70.4	198	4	US-10-123-811-550	Sequence 550, App
437	38	70.4	198	4	US-10-219-066-550	Sequence 226, App	510	38	70.4	198	4	US-10-124-823-550	Sequence 550, App
438	38	70.4	198	4	US-10-219-067-550	Sequence 226, App	511	38	70.4	198	4	US-10-125-931-550	Sequence 550, App
439	38	70.4	198	4	US-10-219-068-550	Sequence 226, App	512	38	70.4	198	4	US-10-125-932-550	Sequence 550, App
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441	38	70.4	198	4	US-10-219-073-550	Sequence 226, App	514	38	70.4	198	4	US-10-127-900A-550	Sequence 550, App
442	38	70.4	198	4	US-10-219-475-550	Sequence 226, App	515	38	70.4	198	4	US-10-128-685A-550	Sequence 550, App
443	38	70.4	198	4	US-10-219-480-550	Sequence 226, App	516	38	70.4	198	4	US-10-131-820A-550	Sequence 550, App
444	38	70.4	198	4	US-10-219-483-550	Sequence 226, App	517	38	70.4	198	4	US-10-142-886-550	Sequence 550, App
445	38	70.4	198	4	US-10-219-525-550	Sequence 226, App	518	38	70.4	198	4	US-10-146-728-550	Sequence 550, App
446	38	70.4	198	4	US-10-219-526-550	Sequence 226, App	519	38	70.4	198	4	US-10-146-786-550	Sequence 550, App
447	38	70.4	198	4	US-10-219-530-550	Sequence 226, App	520	38	70.4	198	4	US-10-147-499-550	Sequence 550, App
448	38	70.4	198	4	US-10-219-531-550	Sequence 226, App	521	38	70.4	198	4	US-10-157-798-550	Sequence 550, App
449	38	70.4	198	4	US-10-219-532-550	Sequence 226, App	522	38	70.4	198	4	US-10-123-913-550	Sequence 550, App
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451	38	70.4	198	4	US-10-230-437-226	Sequence 226, App	524	38	70.4	198	4	US-10-140-806-550	Sequence 550, App
452	38	70.4	198	4	US-10-232-228-550	Sequence 226, App	525	38	70.4	198	4	US-10-140-810-550	Sequence 550, App
453	38	70.4	198	4	US-10-121-044-550	Sequence 550, App	526	38	70.4	198	4	US-10-140-863-550	Sequence 550, App
454	38	70.4	198	4	US-10-121-055-550	Sequence 550, App	527	38	70.4	198	4	US-10-141-699-550	Sequence 550, App
455	38	70.4	198	4	US-10-121-057-550	Sequence 550, App	528	38	70.4	198	4	US-10-141-703-550	Sequence 550, App
456	38	70.4	198	4	US-10-121-058-550	Sequence 550, App	529	38	70.4	198	4	US-10-141-706-550	Sequence 550, App
457	38	70.4	198	4	US-10-121-059-550	Sequence 550, App	530	38	70.4	198	4	US-10-141-757-550	Sequence 550, App
458	38	70.4	198	4	US-10-121-060-550	Sequence 550, App	531	38	70.4	198	4	US-10-141-762-550	Sequence 550, App
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461	38	70.4	198	4	US-10-123-157-550	Sequence 550, App	534	38	70.4	198	4	US-10-142-884-550	Sequence 550, App
462	38	70.4	198	4	US-10-123-906-550	Sequence 550, App	535	38	70.4	198	4	US-10-143-027-550	Sequence 550, App
463	38	70.4	198	4	US-10-124-814-550	Sequence 550, App	536	38	70.4	198	4	US-10-143-315-550	Sequence 550, App
464	38	70.4	198	4	US-10-124-816-550	Sequence 550, App	537	38	70.4	198	4	US-10-144-956-550	Sequence 550, App
465	38	70.4	198	4	US-10-124-820-550	Sequence 550, App	538	38	70.4	198	4	US-10-144-958-550	Sequence 550, App

539	38	70.4	198	4	US-10-145-632-550	Sequence 550, App	612	38	70.4	326	5	US-10-204-921-58	Sequence 58, App1
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541	38	70.4	198	4	US-10-145-753-550	Sequence 550, App	614	37	66.5	332	4	US-10-369-493-2405	Sequence 21405, A
542	38	70.4	198	4	US-10-145-871-550	Sequence 550, App	615	37	68.5	669	4	US-10-782-141-5	Sequence 5, App1
543	38	70.4	198	4	US-10-145-878-550	Sequence 550, App	616	37	68.5	672	4	US-10-782-141-3	Sequence 3, App1
544	38	70.4	198	4	US-10-146-794-550	Sequence 550, App	617	36	66.7	36	4	US-10-437-963-12061	Sequence 133061, A
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547	38	70.4	198	4	US-10-147-535-550	Sequence 550, App	620	36	66.7	156	4	US-10-425-115-319198	Sequence 319198, A
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549	38	70.4	198	4	US-10-152-376-550	Sequence 550, App	622	36	66.7	178	3	US-09-764-853-478	Sequence 478, App
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551	38	70.4	198	4	US-10-152-400-550	Sequence 550, App	624	36	66.7	178	4	US-10-103-313-309	Sequence 309, App
552	38	70.4	198	4	US-10-153-585-550	Sequence 550, App	625	36	66.7	210	5	US-10-158-057-279	Sequence 337, App
553	38	70.4	198	4	US-10-157-800-550	Sequence 550, App	626	36	66.7	244	5	US-10-450-763-51498	Sequence 45498, A
554	38	70.4	198	4	US-10-157-800-550	Sequence 550, App	627	36	66.7	370	4	US-10-247-671-172	Sequence 279, App
555	38	70.4	198	4	US-10-157-801-550	Sequence 550, App	628	36	66.7	392	4	US-10-247-671-172	Sequence 172, App
556	38	70.4	198	4	US-10-157-802-550	Sequence 550, App	629	36	66.7	431	5	US-10-406-686A-65	Sequence 65, App1
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559	38	70.4	198	4	US-10-158-789-550	Sequence 550, App	632	36	66.7	666	4	US-10-782-096-23	Sequence 23, App1
560	38	70.4	198	4	US-10-192-011-550	Sequence 550, App	633	36	66.7	666	4	US-10-781-979-25	Sequence 25, App1
561	38	70.4	198	4	US-10-139-963-550	Sequence 550, App	634	36	66.7	666	5	US-10-781-979-25	Sequence 30674, A
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564	38	70.4	198	4	US-10-140-809-550	Sequence 550, App	637	36	66.7	2254	5	US-10-952-915-28	Sequence 28, App1
565	38	70.4	198	4	US-10-140-865-550	Sequence 550, App	638	36	66.7	45	3	US-09-817-647-11	Sequence 11, App1
566	38	70.4	198	4	US-10-141-701-550	Sequence 550, App	639	35	64.8	45	3	US-09-877-665-11	Sequence 11, App1
567	38	70.4	198	4	US-10-141-754-550	Sequence 550, App	640	35	64.8	45	3	US-10-136-573A-11	Sequence 11, App1
568	38	70.4	198	4	US-10-142-425-550	Sequence 550, App	641	35	64.8	45	4	US-10-215-862-11	Sequence 11, App1
569	38	70.4	198	4	US-10-142-430-550	Sequence 550, App	642	35	64.8	45	4	US-10-215-862-11	Sequence 11, App1
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571	38	70.4	198	4	US-10-146-730-550	Sequence 550, App	644	35	64.8	46	4	US-10-201-949-12	Sequence 12, App1
572	38	70.4	198	4	US-10-158-791-550	Sequence 550, App	645	35	64.8	46	4	US-10-240-441-10	Sequence 10, App1
573	38	70.4	198	4	US-10-156-843-550	Sequence 550, App	646	35	64.8	49	4	US-10-609-370-15	Sequence 15, App1
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576	38	70.4	198	4	US-10-147-528-550	Sequence 550, App	649	35	64.8	80	4	US-10-337-993-2	Sequence 2, App1
577	38	70.4	198	4	US-10-105-654-298	Sequence 298, App	650	35	64.8	96	4	US-10-425-115-304122	Sequence 304122, A
578	38	70.4	198	4	US-10-232-226-226	Sequence 226, App	651	35	64.8	96	4	US-11-021-949-14	Sequence 56846, A
579	38	70.4	198	4	US-10-128-692A-550	Sequence 550, App	652	35	64.8	149	6	US-10-654-102-71	Sequence 71, App1
580	38	70.4	198	4	US-10-140-927-550	Sequence 550, App	653	35	64.8	150	5	US-10-367-057-11	Sequence 11, App1
581	38	70.4	198	4	US-10-230-130-226	Sequence 226, App	654	35	64.8	153	4	US-10-424-599-190642	Sequence 190642, A
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583	38	70.4	198	4	US-10-160-503-550	Sequence 550, App	656	35	64.8	177	4	US-10-654-102-75	Sequence 75, App1
584	38	70.4	198	4	US-10-143-118-550	Sequence 550, App	657	35	64.8	177	4	US-10-654-102-78	Sequence 81, App1
585	38	70.4	198	4	US-10-144-993-550	Sequence 550, App	658	35	64.8	177	4	US-10-654-102-81	Sequence 81, App1
586	38	70.4	198	4	US-10-158-787-550	Sequence 550, App	659	35	64.8	177	4	US-10-654-102-76	Sequence 76, App1
587	38	70.4	198	4	US-10-081-056-298	Sequence 298, App	660	35	64.8	178	4	US-10-654-102-77	Sequence 77, App1
588	38	70.4	198	4	US-10-219-535-226	Sequence 226, App	661	35	64.8	178	4	US-10-654-102-80	Sequence 80, App1
589	38	70.4	198	4	US-10-232-230-226	Sequence 226, App	662	35	64.8	178	4	US-10-654-102-82	Sequence 82, App1
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595	38	70.4	198	4	US-10-125-795-550	Sequence 550, App	668	35	64.8	635	4	US-10-782-096-18	Sequence 18, App1
596	38	70.4	198	4	US-10-145-951-550	Sequence 550, App	669	35	64.8	635	4	US-10-782-570-14	Sequence 12, App1
597	38	70.4	198	4	US-10-219-477-226	Sequence 226, App	670	35	64.8	635	5	US-10-781-979-19	Sequence 19, App1
598	38	70.4	198	4	US-10-145-626-550	Sequence 550, App	671	35	64.8	635	5	US-10-926-819-16	Sequence 16, App1
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600	38	70.4	198	4	US-10-145-825-550	Sequence 550, App	673	35	64.8	635	5	US-10-437-963-121757	Sequence 121757, A
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602	38	70.4	198	4	US-10-147-518-550	Sequence 550, App	675	35	64.8	2109	6	US-10-223-070-6	Sequence 6, App1
603	38	70.4	198	4	US-10-145-951-550	Sequence 550, App	676	35	64.8	39	4	US-10-437-963-118061	Sequence 118061, A
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605	38	70.4	198	4	US-10-147-488-550	Sequence 550, App	678	35	64.8	39	4	US-10-437-963-118061	Sequence 118061, A
606	38	70.4	198	4	US-10-147-531-550	Sequence 550, App	679	35	64.8	39	4	US-10-437-963-118061	Sequence 118061, A
607	38	70.4	198	4	US-10-147-531-550	Sequence 550, App	680	35	64.8	39	4	US-10-437-963-118061	Sequence 118061, A
608	38	70.4	198	4	US-10-147-531-550	Sequence 550, App	681	35	64.8	39	4	US-10-437-963-118061	Sequence 118061, A
609	38	70.4	198	4	US-10-147-531-550	Sequence 550, App	682	35	64.8	39	4	US-10-437-963-118061	Sequence 118061, A
610	38	70.4	198	4	US-10-147-531-550	Sequence 550, App	683	35	64.8	39	4	US-10-437-963-118061	Sequence 118061, A
611	38	70.4	220	4	US-10-106-698-5750	Sequence 5750, Ap	684	34	63.0	39	4	US-10-437-963-118061	Sequence 118061, A

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686	34	63.0	75	4	US-10-424-599-229003	Sequence 229003,	759	33	61.1	454	6	US-11-097-143-32324	Sequence 32324, A
687	34	63.0	111	4	US-10-425-115-258760	Sequence 258760,	760	33	61.1	476	4	US-10-425-114-41946	Sequence 41946, A
688	34	63.0	113	4	US-10-425-115-195167	Sequence 195167,	761	33	61.1	477	4	US-10-369-493-22077	Sequence 22077, A
689	34	63.0	119	4	US-10-767-701-34087	Sequence 34087, A	762	33	61.1	485	4	US-10-369-493-22271	Sequence 22271, A
690	34	63.0	122	4	US-10-437-963-156988	Sequence 156988,	763	33	61.1	532	3	US-09-903-068-6	Sequence 6, Appl1
691	34	63.0	130	5	US-10-450-763-32229	Sequence 32229, A	764	33	61.1	532	3	US-09-903-068-14	Sequence 14, Appl1
692	34	63.0	148	4	US-10-424-599-212803	Sequence 212803,	765	33	61.1	532	3	US-09-874-628-2	Sequence 2, Appl1
693	34	63.0	149	6	US-11-021-949-360	Sequence 360, App	766	33	61.1	532	3	US-09-982-5433A-6	Sequence 6, Appl1
694	34	63.0	150	6	US-11-021-949-27	Sequence 27, Appl	767	33	61.1	532	4	US-10-153-212-3	Sequence 2, Appl1
695	34	63.0	180	4	US-10-425-115-255153	Sequence 255153,	768	33	61.1	532	4	US-10-286-152A-38	Sequence 38, Appl1
696	34	63.0	224	6	US-11-097-143-12297	Sequence 12297, A	769	33	61.1	532	4	US-10-463-190-102	Sequence 102, App
697	34	63.0	228	4	US-10-437-963-11257	Sequence 11257,	770	33	61.1	532	4	US-10-463-190-105	Sequence 105, App
698	34	63.0	228	4	US-10-425-115-221423	Sequence 221423,	771	33	61.1	532	4	US-10-463-190-106	Sequence 106, App
699	34	63.0	228	4	US-10-225-066A-398	Sequence 398, App	772	33	61.1	532	4	US-10-463-190-107	Sequence 107, App
700	34	63.0	246	4	US-10-374-780A-2752	Sequence 2752, Ap	773	33	61.1	532	4	US-10-463-190-110	Sequence 110, App
701	34	63.0	250	5	US-10-425-114-65472	Sequence 398, App	774	33	61.1	532	4	US-10-600-645-2	Sequence 2, Appl1
702	34	63.0	256	4	US-10-425-114-65472	Sequence 65472, A	775	33	61.1	532	5	US-10-733-413-6	Sequence 6, Appl1
703	34	63.0	291	5	US-10-732-923-8509	Sequence 8509, Ap	776	33	61.1	532	5	US-10-733-413-14	Sequence 14, Appl1
704	34	63.0	298	4	US-10-425-115-251791	Sequence 251791,	777	33	61.1	532	5	US-10-868-497-71	Sequence 71, Appl1
705	34	63.0	305	4	US-10-282-122A-65748	Sequence 65748, A	778	33	61.1	532	5	US-10-868-497-74	Sequence 74, Appl1
706	34	63.0	335	3	US-09-930-512-26	Sequence 26, Appl	779	33	61.1	532	5	US-10-868-497-75	Sequence 75, Appl1
707	34	63.0	418	3	US-09-816-664-2	Sequence 2, Appl1	780	33	61.1	532	5	US-10-868-497-79	Sequence 79, Appl1
708	34	63.0	418	4	US-10-193-452-2	Sequence 2, Appl1	781	33	61.1	532	5	US-10-868-497-19	Sequence 19, Appl1
709	34	63.0	420	4	US-10-362-939-2	Sequence 2, Appl1	782	33	61.1	532	5	US-10-493-380-38	Sequence 38, Appl1
710	34	63.0	420	5	US-10-618-281-12	Sequence 12, Appl	783	33	61.1	532	6	US-10-745-237-308	Sequence 308, App
711	34	63.0	439	4	US-10-437-963-177276	Sequence 177276,	784	33	61.1	532	6	US-11-098-889-6	Sequence 6, Appl1
712	34	63.0	480	3	US-09-925-298-559	Sequence 559, App	785	33	61.1	533	5	US-10-450-763-53229	Sequence 53229, A
713	34	63.0	480	4	US-10-102-806-559	Sequence 559, App	786	33	61.1	534	4	US-10-437-963-14436	Sequence 14436, A
714	34	63.0	573	6	US-11-097-143-18297	Sequence 18297, A	787	33	61.1	545	4	US-10-369-493-22449	Sequence 22449, A
715	34	63.0	944	4	US-10-369-493-2245	Sequence 2245, Ap	788	33	61.1	546	4	US-10-369-493-1901	Sequence 1901, Ap
716	34	63.0	944	4	US-10-389-566-2099	Sequence 2099, Ap	789	33	61.1	567	3	US-09-843-378-13	Sequence 13, Appl
717	34	63.0	957	4	US-10-403-571-120	Sequence 120, App	790	33	61.1	690	5	US-10-781-979-5	Sequence 5, Appl1
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ALIGNMENTS

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; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chiciz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 78
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-78

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; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
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US-10-751-845-76

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; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: FOVEILLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; FILE REFERENCE: 45636-5071-US
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 31
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 76-90
US-10-476-570-31

Query Match 100.0%; Score 54; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.013;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```

; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: PR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 32
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 78-92
US-10-476-570-32
```

```

Query Match          100.0%; Score 54; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.013;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 KISEYRHYC 9
        |||||
Db       2 KISEYRHYC 10
```

RESULT 5
US-10-476-570-12

```

; Sequence 12, Application US/10476570
; Publication No. US2004017064A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: PR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 20
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 76-95
US-10-476-570-12
```

```

Query Match          100.0%; Score 54; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.017;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 KISEYRHYC 9
        |||||
Db       4 KISEYRHYC 12
```

RESULT 6
US-10-751-845-66
; Sequence 66, Application US/10751845

```

; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 66
; LENGTH: 23
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-66
```

```

Query Match          100.0%; Score 54; DB 5; Length 23;
Best Local Similarity 100.0%; Pred. No. 0.02;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 KISEYRHYC 9
        |||||
Db       1 KISEYRHYC 9
```

RESULT 7
US-10-751-845-126

```

; Sequence 126, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 126
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-126
```

```

Query Match          100.0%; Score 54; DB 5; Length 117;
Best Local Similarity 100.0%; Pred. No. 0.091;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 KISEYRHYC 9
        |||||
Db       45 KISEYRHYC 53
```

RESULT 8
US-10-177-390-6
; Sequence 6, Application US/10177390
; Publication No. US20030143743A1

```
; GENERAL INFORMATION:
; APPLICANT: Schuler, Gerold
; APPLICANT: N.V. Antwerp Innovatiecentrum
; TITLE OF INVENTION: Improved transfection of Eucaryotic Cells with Linear
; FILE REFERENCE: 021505wo/JH/ml
; CURRENT APPLICATION NUMBER: US/10/177,390
; CURRENT FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-177-390-6

Query Match          100.0%; Score 54; DB 4; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KISEYRHYC 9
   |||||
Db 72 KISEYRHYC 80

RESULT 9
US-10-484-063-20
; Sequence 20, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLELMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-20

Query Match          100.0%; Score 54; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KISEYRHYC 9
   |||||
Db 72 KISEYRHYC 80

RESULT 10
US-10-484-063-27
; Sequence 27, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLELMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
```

```
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-484-063-27

Query Match          100.0%; Score 54; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KISEYRHYC 9
   |||||
Db 72 KISEYRHYC 80

RESULT 11
US-10-858-384-2
; Sequence 2, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANINE
; APPLICANT: BOURGAULT VILADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCES
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
; CURRENT FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 2
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-10-858-384-2

Query Match          100.0%; Score 54; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KISEYRHYC 9
   |||||
Db 79 KISEYRHYC 87

RESULT 12
US-10-367-057-16
; Sequence 16, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
; APPLICANT: Cutbill, Scott;
; APPLICANT: Jackson, Amanda;
; APPLICANT: Lewin, David A.;
; APPLICANT: Ooi, Chean Eng
; TITLE OF INVENTION: Complexes and Methods of Using Same
; FILE REFERENCE: 21402-559
; CURRENT APPLICATION NUMBER: US/10/367,057
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: 60/256,911
; PRIOR FILING DATE: 2002-02-14
; NUMBER OF SEQ ID NOS: 198
; SOFTWARE: CuraseqList version 0.1
; SEQ ID NO 16
```


LENGTH: 158
TYPE: PRT
ORGANISM: Homo sapiens
US-10-367-057-16

Query Match 100.0%; Score 54; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KISEYRHYC 9
|||||||
Db 79 KISEYRHYC 87

RESULT 13
US-11-021-949-13
Sequence 13, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:

APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARES, MICHAEL P.
APPLICANT: DIAZ-SAMIENTO, CHAMORO SONOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 13
LENGTH: 158
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-13

Query Match 100.0%; Score 54; DB 6; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KISEYRHYC 9
|||||||
Db 79 KISEYRHYC 87

RESULT 14
US-10-472-724-2
Sequence 2, Application US/10472724
Publication No. US20040171806A1
GENERAL INFORMATION:

APPLICANT: Cid-Arregui, Angel
APPLICANT: Zur Hausen, Harald
TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
FILE REFERENCE: 4121-154
CURRENT APPLICATION NUMBER: US/10/472,724
CURRENT FILING DATE: 2003-09-17
PRIOR APPLICATION NUMBER: PCT/EP02/03271
PRIOR FILING DATE: 2002-03-22
PRIOR APPLICATION NUMBER: EP 01107271.7
PRIOR FILING DATE: 2001-03-23
NUMBER OF SEQ ID NOS: 27
SOFTWARE: PatentIn version 3.2
SEQ ID NO 2
LENGTH: 171
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Construct
US-10-472-724-2

Query Match 100.0%; Score 54; DB 4; Length 171;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KISEYRHYC 9
|||||||
Db 84 KISEYRHYC 92

RESULT 15
US-10-751-845-157
Sequence 157, Application US/10751845
Publication No. US20050100928A1
GENERAL INFORMATION:

APPLICANT: Hedley, Mary Lynne
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
FILE REFERENCE: 08191-013001
CURRENT APPLICATION NUMBER: US/10/751,845
CURRENT FILING DATE: 2004-01-05
PRIOR APPLICATION NUMBER: US/09/664,225
PRIOR FILING DATE: 2000-08-18
PRIOR APPLICATION NUMBER: US 60/169,846
PRIOR FILING DATE: 1999-12-09
PRIOR APPLICATION NUMBER: US 60/154,665
PRIOR FILING DATE: 1999-09-16
NUMBER OF SEQ ID NOS: 163
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 157
LENGTH: 236
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-157

Query Match 100.0%; Score 54; DB 5; Length 236;
Best Local Similarity 100.0%; Pred. No. 0.18;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KISEYRHYC 9
|||||||
Db 45 KISEYRHYC 53

RESULT 16
US-10-751-845-158
Sequence 158, Application US/10751845
Publication No. US20050100928A1
GENERAL INFORMATION:

APPLICANT: Hedley, Mary Lynne
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
FILE REFERENCE: 08191-013001
CURRENT APPLICATION NUMBER: US/10/751,845
CURRENT FILING DATE: 2004-01-05
PRIOR APPLICATION NUMBER: US/09/664,225
PRIOR FILING DATE: 2000-08-18
PRIOR APPLICATION NUMBER: US 60/169,846
PRIOR FILING DATE: 1999-12-09
PRIOR APPLICATION NUMBER: US 60/154,665
PRIOR FILING DATE: 1999-09-16
NUMBER OF SEQ ID NOS: 163
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 158
LENGTH: 237
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-158

Query Match 100.0%; Score 54; DB 5; Length 237;
Best Local Similarity 100.0%; Pred. No. 0.16;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KISEYRHYC 9
|||||
46 KISEYRHYC 54

RESULT 17
US-11-072-288-1

; Sequence 1, Application US/11072288
; Publication No. US20050159386A1
; GENERAL INFORMATION:
; APPLICANT: KIENY, Marie-Paule
; APPLICANT: BALLOUT, Jean-Marc
; APPLICANT: BIZOUARNE, Nadine
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
; TITLE OF INVENTION: POLYPEPTIDE WITH MODIFIED CELL LOCATION
; FILE REFERENCE: 017753-122
; CURRENT APPLICATION NUMBER: US/11/072,288
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US/09/462,993
; PRIOR FILING DATE: 2000-04-17
; PRIOR APPLICATION NUMBER: PCT/FR98/01576
; PRIOR FILING DATE: 1998-07-17
; PRIOR APPLICATION NUMBER: FR 97/09152
; PRIOR FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 1
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Derived from
; OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
; OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-11-072-288-1

Query Match 100.0%; Score 54; DB 6; Length 243;
Best Local Similarity 100.0%; Pred. No. 0.16;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KISEYRHYC 9
|||||
107 KISEYRHYC 115

RESULT 18
US-10-751-845-160

; Sequence 160, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 160
; LENGTH: 261
; TYPE: PRT

; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-160

Query Match 100.0%; Score 54; DB 5; Length 261;
Best Local Similarity 100.0%; Pred. No. 0.19;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KISEYRHYC 9
|||||
Db 70 KISEYRHYC 78

RESULT 19
US-09-367-309A-1

; Sequence 1, Application US/09367309A
; Publication No. US20020081329A1
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; APPLICANT: MALLIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A
; CURRENT FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 54; DB 3; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KISEYRHYC 9
|||||
Db 79 KISEYRHYC 87

RESULT 20
US-10-000-903-4

; Sequence 4, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9719953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-4

Query Match 100.0%; Score 54; DB 4; Length 273;

Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KISEYRHYC 9
|||||
Db 165 KISEYRHYC 193

RESULT 21

US-10-899-771-4
; Sequence 4, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
; OTHER INFORMATION: influenzae B and E6 from Human papilloma virus type
; OTHER INFORMATION: 16)
US-10-899-771-4

Query Match 100.0%; Score 54; DB 5; Length 273;

Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KISEYRHYC 9
|||||
Db 165 KISEYRHYC 193

RESULT 22

US-10-000-903-10
; Sequence 10, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-10

Query Match 100.0%; Score 54; DB 4; Length 292;
Best Local Similarity 100.0%; Pred. No. 0.22;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KISEYRHYC 9
|||||
Db 204 KISEYRHYC 212

RESULT 23

US-10-899-771-10
; Sequence 10, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (Clyta from Streptococcus
; OTHER INFORMATION: pneumoniae and E6 from Human papilloma virus type
; OTHER INFORMATION: 16)
US-10-899-771-10

Query Match 100.0%; Score 54; DB 5; Length 292;

Best Local Similarity 100.0%; Pred. No. 0.22;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KISEYRHYC 9
|||||
Db 204 KISEYRHYC 212

RESULT 24

US-10-000-903-6
; Sequence 6, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-6

Query Match 100.0%; Score 54; DB 4; Length 371;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KISEYRHYC 9
|||
Db 185 KISEYRHYC 193

RESULT 25

US-10-899-771-6
; Sequence 6, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (protein D from Haemophilus
; OTHER INFORMATION: Influenzae B and B6E7 fusion from Human papilloma
; OTHER INFORMATION: virus type 16)
US-10-899-771-6

Query Match 100.0%; Score 54; DB 5; Length 371;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KISEYRHYC 9
|||
Db 185 KISEYRHYC 193

RESULT 26

US-10-000-903-14
; Sequence 14, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabeton Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapien

US-10-000-903-14

Query Match 100.0%; Score 54; DB 4; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.28;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KISEYRHYC 9
|||
Db 204 KISEYRHYC 212

RESULT 27

US-10-899-771-14
; Sequence 14, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
; OTHER INFORMATION: pneumoniae and E6E7 fusion from Human papilloma
; OTHER INFORMATION: virus type 16)
US-10-899-771-14

Query Match 100.0%; Score 54; DB 5; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.28;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KISEYRHYC 9
|||
Db 204 KISEYRHYC 212

RESULT 28

US-10-751-845-70
; Sequence 70, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 70
; LENGTH: 9
; TYPE: PRT

```
/ ORGANISM: Human Papilloma virus
US-10-751-845-70

Query Match
Best Local Similarity 90.7%; Score 49; DB 5; Length 9;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 ISEYRHYC 9
Db 1 ISEYRHYC 8

RESULT 29
US-10-751-845-75
/ Sequence 75, Application US/10751845
/ Publication No. US20050100928A1
/ GENERAL INFORMATION:
/ APPLICANT: Hedley, Mary Lynne
/ APPLICANT: Urban, Robert G.
/ APPLICANT: Chicx, Roman M.
/ TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
/ FILE REFERENCE: 08191-013001
/ CURRENT APPLICATION NUMBER: US/10/751,845
/ PRIOR FILING DATE: 2004-01-05
/ PRIOR APPLICATION NUMBER: US/09/664,225
/ PRIOR FILING DATE: 2000-08-18
/ PRIOR APPLICATION NUMBER: US 60/169,846
/ PRIOR FILING DATE: 1999-12-09
/ PRIOR APPLICATION NUMBER: US 60/154,665
/ PRIOR FILING DATE: 1999-09-16
/ NUMBER OF SEQ ID NOS: 163
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 75
/ LENGTH: 10
/ TYPE: PRT
/ ORGANISM: Human Papilloma virus
US-10-751-845-75

Query Match
Best Local Similarity 90.7%; Score 49; DB 5; Length 10;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 ISEYRHYC 9
Db 1 ISEYRHYC 8

RESULT 30
US-10-476-570-55
/ Sequence 55, Application US/10476570
/ Publication No. US20040170644A1
/ GENERAL INFORMATION:
/ APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
/ APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
/ APPLICANT: MAILLIERE, Bernard
/ APPLICANT: BOURGAULT-VILLADA, Isabelle
/ APPLICANT: BOUVELLE-MORILLAS, Sandra
/ APPLICANT: GUILLET, Jean-Gerard
/ TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
/ FILE REFERENCE: 45636-5071-US
/ CURRENT APPLICATION NUMBER: US/10/476,570
/ PRIOR FILING DATE: 2003-11-04
/ PRIOR APPLICATION NUMBER: PCT/FR02/01533
/ PRIOR FILING DATE: 2002-05-03
/ PRIOR APPLICATION NUMBER: FR 01 05980
/ PRIOR FILING DATE: 2001-05-04
/ NUMBER OF SEQ ID NOS: 63
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 55
/ LENGTH: 29
/ TYPE: PRT
/ ORGANISM: artificial sequence

/ FEATURE:
/ OTHER INFORMATION: Description of the artificial sequence: peptide E6 80-108
US-10-476-570-55

Query Match
Best Local Similarity 90.7%; Score 49; DB 4; Length 29;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 ISEYRHYC 9
Db 1 ISEYRHYC 8

RESULT 31
US-10-858-384-8
/ Sequence 8, Application US/10858384
/ Publication No. US2005003025A1
/ GENERAL INFORMATION:
/ APPLICANT: CHOPPIN, JEANNINE
/ APPLICANT: BOURGAULT VILLADA, ISABELLE
/ APPLICANT: GUILLET, JEAN-GERARD
/ APPLICANT: CONNAN, FRANCESCA
/ APPLICANT: FERRIES, ESTELLE
/ TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
/ TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
/ TITLE OF INVENTION: PARTICULARLY IN VACCINATION
/ FILE REFERENCE: 0508-1037-1
/ CURRENT APPLICATION NUMBER: US/10/858,384
/ PRIOR FILING DATE: 2004-06-02
/ PRIOR APPLICATION NUMBER: FR 9907012
/ PRIOR FILING DATE: 1999-06-03
/ NUMBER OF SEQ ID NOS: 24
/ SOFTWARE: PatentIn Ver. 3.2
/ SEQ ID NO 8
/ LENGTH: 29
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of the Artificial Sequence: Peptide fragment
US-10-858-384-8

Query Match
Best Local Similarity 90.7%; Score 49; DB 5; Length 29;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 ISEYRHYC 9
Db 1 ISEYRHYC 8

RESULT 32
US-10-751-845-80
/ Sequence 80, Application US/10751845
/ Publication No. US20050100928A1
/ GENERAL INFORMATION:
/ APPLICANT: Hedley, Mary Lynne
/ APPLICANT: Urban, Robert G.
/ APPLICANT: Chicx, Roman M.
/ TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
/ FILE REFERENCE: 08191-013001
/ CURRENT APPLICATION NUMBER: US/10/751,845
/ PRIOR FILING DATE: 2004-01-05
/ PRIOR APPLICATION NUMBER: US/09/664,225
/ PRIOR FILING DATE: 2000-08-18
/ PRIOR APPLICATION NUMBER: US 60/169,846
/ PRIOR FILING DATE: 1999-12-09
/ PRIOR APPLICATION NUMBER: US 60/154,665
/ PRIOR FILING DATE: 1999-09-16
/ NUMBER OF SEQ ID NOS: 163
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 80
/ LENGTH: 10
```

```
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-80

Query Match
Best Local Similarity 83.3%; Score 45; DB 5; Length 10;
Pred. No. 0.34;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 SEYRHYC 9
   |||||
Db 1 SEYRHYC 7

RESULT 33
US-10-476-570-33
; Sequence 33, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIER, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; FILE REFERENCE: 45656-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 33
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 81-95
US-10-476-570-33

Query Match
Best Local Similarity 83.3%; Score 45; DB 4; Length 15;
Pred. No. 0.5;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 SEYRHYC 9
   |||||
Db 1 SEYRHYC 7

RESULT 34
US-11-021-949-17
; Sequence 17, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 148
```

```
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-17

Query Match
Best Local Similarity 83.3%; Score 45; DB 6; Length 148;
Pred. No. 4.4;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KISEYRHY 8
   |||||
Db 72 KISEYRHY 79

RESULT 35
US-11-021-949-15
; Sequence 15, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-15

Query Match
Best Local Similarity 83.3%; Score 45; DB 6; Length 149;
Pred. No. 4.4;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KISEYRHY 8
   |||||
Db 72 KISEYRHY 79

RESULT 36
US-11-021-949-16
; Sequence 16, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-16

Query Match
Best Local Similarity 83.3%; Score 45; DB 6; Length 149;
Pred. No. 4.4;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

Best Local Similarity 100.0%; Pred. No. 4.4;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KISEYRHY 8
|||||

DB 72 KISEYRHY 79

RESULT 37
US-10-239-313A-313

/ Sequence 313, Application US/10239313A
/ Publication No. US20030175285A1
/ GENERAL INFORMATION:
/ APPLICANT: KLINGUER - HAMOUR, Christine
/ APPLICANT: CORVAIA, Nathalie
/ APPLICANT: BECK, Alain
/ APPLICANT: GOETSCH, Liliane
/ TITLE OF INVENTION: MOLECULE OF PHARMACEUTICAL INTEREST COMPRISING AT ITS
/ TITLE OF INVENTION: N-TERMINAL A GLUTAMIC ACID OR A GLUTAMINE IN THE FORM
/ FILE REFERENCE: 343 727 - US
/ CURRENT APPLICATION NUMBER: US/10/239,313A
/ PRIOR FILING DATE: 2002-09-19
/ PRIOR APPLICATION NUMBER: FR 00/03711
/ PRIOR FILING DATE: 2000-03-23
/ PRIOR APPLICATION NUMBER: PCT 01/70772
/ PRIOR FILING DATE: 2001-03-22
/ NUMBER OF SEQ ID NOS: 697
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 313
/ LENGTH: 9
/ TYPE: PRT
/ ORGANISM: Human papillomavirus
US-10-239-313A-313

Query Match 75.9%; Score 41; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 EYRHYC 9
|||||

DB 1 EYRHYC 6

RESULT 38
US-10-751-845-86

/ Sequence 86, Application US/10751845
/ Publication No. US20050100928A1
/ GENERAL INFORMATION:
/ APPLICANT: Hedley, Mary Lynne
/ APPLICANT: Urban, Robert G.
/ APPLICANT: Chicz, Roman M.
/ TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
/ FILE REFERENCE: 08191-013001
/ CURRENT APPLICATION NUMBER: US/10/751,845
/ PRIOR FILING DATE: 2004-01-05
/ PRIOR APPLICATION NUMBER: US/09/664,225
/ PRIOR FILING DATE: 2000-08-18
/ PRIOR APPLICATION NUMBER: US 60/169,846
/ PRIOR FILING DATE: 1999-12-09
/ PRIOR APPLICATION NUMBER: US 60/154,665
/ PRIOR FILING DATE: 1999-09-16
/ NUMBER OF SEQ ID NOS: 163
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 86
/ LENGTH: 9
/ TYPE: PRT
/ ORGANISM: Human Papilloma virus
US-10-751-845-86

Query Match 75.9%; Score 41; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 EYRHYC 9
|||||

DB 1 EYRHYC 6

RESULT 39
US-10-751-845-93

/ Sequence 93, Application US/10751845
/ Publication No. US20050100928A1
/ GENERAL INFORMATION:
/ APPLICANT: Hedley, Mary Lynne
/ APPLICANT: Urban, Robert G.
/ APPLICANT: Chicz, Roman M.
/ TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
/ FILE REFERENCE: 08191-013001
/ CURRENT APPLICATION NUMBER: US/10/751,845
/ PRIOR FILING DATE: 2004-01-05
/ PRIOR APPLICATION NUMBER: US/09/664,225
/ PRIOR FILING DATE: 2000-08-18
/ PRIOR APPLICATION NUMBER: US 60/169,846
/ PRIOR FILING DATE: 1999-12-09
/ PRIOR APPLICATION NUMBER: US 60/154,665
/ PRIOR FILING DATE: 1999-09-16
/ NUMBER OF SEQ ID NOS: 163
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 93
/ LENGTH: 10
/ TYPE: PRT
/ ORGANISM: Human Papilloma virus
US-10-751-845-93

Query Match 75.9%; Score 41; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.7;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 EYRHYC 9
|||||

DB 1 EYRHYC 6

RESULT 40
US-10-425-115-249267

/ Sequence 249267, Application US/10425115
/ Publication No. US20040214272A1
/ GENERAL INFORMATION:
/ APPLICANT: La Roga, Thomas J.
/ APPLICANT: Kovalic, David K.
/ APPLICANT: Zhou, Yihua
/ APPLICANT: Cao, Yongwei
/ TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
/ FILE REFERENCE: 38-21(53222)B
/ CURRENT APPLICATION NUMBER: US/10/425,115
/ PRIOR FILING DATE: 2003-04-28
/ NUMBER OF SEQ ID NOS: 369326
/ SEQ ID NO 249267
/ LENGTH: 112
/ TYPE: PRT
/ ORGANISM: Zea mays
/ FEATURE:
/ OTHER INFORMATION: Clone ID: MMT4577_158918C.1.pep
US-10-425-115-249267

Query Match 72.2%; Score 39; DB 4; Length 112;
Best Local Similarity 85.7%; Pred. No. 38;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 SEYRHYC 9
|||||

DB 91 STYRHYC 97

```
RESULT 41
US-10-425-115-308652
; Sequence 308652, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(5322)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 308652
; LENGTH: 147
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(147)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_44559C.1.pep
US-10-425-115-308652
```

```
Query Match          72.2%; Score 39; DB 4; Length 147;
Best Local Similarity 62.5%; Pred. No. 49;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      2 ISEYRHYC 9
       : |||||
DB      70 VOEYRHHHC 77
```

```
RESULT 42
US-11-097-143-31596
; Sequence 31596, Application US/11097143
; Publication No. US20050208558A1
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; APPLICANT: et al.
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAIS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
; FILE REFERENCE: CL000728
; CURRENT APPLICATION NUMBER: US/11/097,143
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 31596
; LENGTH: 1815
; TYPE: PRT
; ORGANISM: DROSOPHILA
US-11-097-143-31596
```

```
Query Match          72.2%; Score 39; DB 6; Length 1815;
Best Local Similarity 85.7%; Pred. No. 5,3e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      2 ISEYRHY 8
       : |||||
DB      52 VSEYRHY 58
```

```
RESULT 43
US-09-809-391-640
; Sequence 640, Application US/09809391
; Publication No. US20030049618A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: 186 Human Secreted proteins
; FILE REFERENCE: P2002P2
; CURRENT APPLICATION NUMBER: US/09/809,391
; CURRENT FILING DATE: 2001-03-16
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 761
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 640
; LENGTH: 28
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-809-391-640
```

```
Query Match          70.4%; Score 38; DB 3; Length 28;
Best Local Similarity 75.0%; Pred. No. 16;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      2 ISEYRHYC 9
       : |||||
DB      4 ISQLRHYC 11
```

```
RESULT 44
US-09-882-171-640
; Sequence 640, Application US/09882171
; Publication No. US20030175858A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: 186 Human Secreted proteins
; FILE REFERENCE: P2002P2
; CURRENT APPLICATION NUMBER: US/09/882,171
; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 09/809,391
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 09/149,476
; PRIOR FILING DATE: 1998-09-08
; PRIOR APPLICATION NUMBER: PCT/US98/04493
; PRIOR FILING DATE: 1998-03-06
; PRIOR APPLICATION NUMBER: 60/040,162
; PRIOR FILING DATE: 1997-03-07
; PRIOR APPLICATION NUMBER: 60/040,333
; PRIOR FILING DATE: 1997-03-07
; PRIOR APPLICATION NUMBER: 60/038,621
; PRIOR FILING DATE: 1997-03-07
; PRIOR APPLICATION NUMBER: 60/040,626
; PRIOR FILING DATE: 1997-03-07
; PRIOR APPLICATION NUMBER: 60/040,334
; PRIOR FILING DATE: 1997-03-07
; PRIOR APPLICATION NUMBER: 60/040,336
; PRIOR FILING DATE: 1997-03-07
; PRIOR APPLICATION NUMBER: 60/040,163
; PRIOR FILING DATE: 1997-03-07
; PRIOR APPLICATION NUMBER: 60/047,600
; PRIOR FILING DATE: 1997-05-23
; PRIOR APPLICATION NUMBER: 60/047,615
; PRIOR FILING DATE: 1997-05-23
; PRIOR APPLICATION NUMBER: 60/047,597
; PRIOR FILING DATE: 1997-05-23
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; PRIOR APPLICATION NUMBER: 60/056,881
; PRIOR FILING DATE: 1997-08-22
; PRIOR APPLICATION NUMBER: 60/056,909
; PRIOR FILING DATE: 1997-08-22
; PRIOR APPLICATION NUMBER: 60/056,875
; PRIOR FILING DATE: 1997-08-22
; PRIOR APPLICATION NUMBER: 60/056,862
; PRIOR FILING DATE: 1997-08-22
; PRIOR APPLICATION NUMBER: 60/056,887
; PRIOR FILING DATE: 1997-08-22
; PRIOR APPLICATION NUMBER: 60/056,908
; PRIOR FILING DATE: 1997-08-22
; PRIOR APPLICATION NUMBER: 60/048,964
; PRIOR FILING DATE: 1997-06-06
; PRIOR APPLICATION NUMBER: 60/057,650
; PRIOR FILING DATE: 1997-09-05
; PRIOR APPLICATION NUMBER: 60/056,884
; PRIOR FILING DATE: 1997-08-22
; PRIOR APPLICATION NUMBER: 60/057,669
; PRIOR FILING DATE: 1997-09-05
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```
Query Match          70.4%; Score 38; DB 3; Length 28;
Best Local Similarity 75.0%; Pred. No. 16;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy      2 ISEYRHYC 9
      ||: |||
Db      4 ISQLRHYC 11
```

```

RESULT 45
US-10-164-861-640
; Sequence 640, Application US/10164861
; Publication No. US20030225248A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 186 Human Secreted proteins
; FILE REFERENCE: P2002P1
; CURRENT APPLICATION NUMBER: US/10/164,861
; CURRENT FILING DATE: 2002-06-10
; PRIOR APPLICATION NUMBER: US/09/149,476
; PRIOR FILING DATE: 1998-09-08
; PRIOR APPLICATION NUMBER: PCT/US98/04493
; PRIOR FILING DATE: 1998-03-06
; NUMBER OF SEQ ID NOS: 757
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 640
; LENGTH: 28
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-164-861-640
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```
Query Match          70.4%; Score 38; DB 4; Length 28;
Best Local Similarity 75.0%; Pred. No. 16;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy      2 ISEYRHYC 9
      ||: |||
Db      4 ISQLRHYC 11
```

```

RESULT 46
US-10-264-237-2295
; Sequence 2295, Application US/10264237
; Publication No. US20040009491A1
; GENERAL INFORMATION:
; APPLICANT: Birse et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: P4131P1
; CURRENT APPLICATION NUMBER: US/10/264,237
; CURRENT FILING DATE: 2002-10-04
; PRIOR APPLICATION NUMBER: PCT/US01/16450
; PRIOR FILING DATE: 2001-05-18
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; PRIOR APPLICATION NUMBER: US 60/205,515
; PRIOR FILING DATE: 2000-05-19
; NUMBER OF SEQ ID NOS: 2876
; SOFTWARE: PatentIn Ver. 3.1
; SEQ ID NO 2295
; LENGTH: 113
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (10)
; OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
US-10-264-237-2295
```

```
Query Match          70.4%; Score 38; DB 4; Length 113;
Best Local Similarity 55.6%; Pred. No. 58;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
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```
Qy      1 KISEYRHYC 9
      ::|||::|
Db      34 RVSEYRHYC 42
```

```

RESULT 47
US-10-408-765A-1288
; Sequence 1288, Application US/10408765A
; Publication No. US20040101874A1
; GENERAL INFORMATION:
; APPLICANT: Ghosh, Soumitra S.
; APPLICANT: Fahy, Bojin D.
; APPLICANT: Zhang, Bing
; APPLICANT: Gibson, Bradford W.
; APPLICANT: Taylor, Steven W.
; APPLICANT: Glenn, Gary M.
; APPLICANT: Warnock, Dale E.
; TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION
; FILE REFERENCE: 660088.465
; CURRENT APPLICATION NUMBER: US/10/408,765A
; CURRENT FILING DATE: 2003-04-04
; NUMBER OF SEQ ID NOS: 3077
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1288
; LENGTH: 180
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-408-765A-1288
```

```
Query Match          70.4%; Score 38; DB 4; Length 180;
Best Local Similarity 75.0%; Pred. No. 90;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
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```
Qy      2 ISEYRHYC 9
      ||: |||
Db      64 ISQLRHYC 71
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```

RESULT 48
US-10-001-054-40
; Sequence 40, Application US/10001054
; Publication No. US20020192209A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Baker, Kevin
; APPLICANT: Goddard, Audrey
; APPLICANT: Gurney, Austin
; APPLICANT: Hebert, Carolyn
; APPLICANT: Henzel, William
; APPLICANT: Kabakoff, Rhona
; APPLICANT: Shelton, David
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin
; APPLICANT: Wood, William
```

TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR INHIBITING NEOPLASTIC
FILE REFERENCE: P3034R1PCT
CURRENT APPLICATION NUMBER: US/10/001,054
CURRENT FILING DATE: 2001-11-30
PRIOR APPLICATION NUMBER: 60/059114
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/079689
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079920
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/082999
PRIOR FILING DATE: 1998-04-24
PRIOR APPLICATION NUMBER: 60/083545
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/085149
PRIOR FILING DATE: 1998-05-12
PRIOR APPLICATION NUMBER: 60/087607
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/088858
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/090691
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/096891
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: 60/096894
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: 60/099803
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/100263
PRIOR FILING DATE: 1998-09-14
PRIOR APPLICATION NUMBER: 60/100390
PRIOR FILING DATE: 1998-09-15
PRIOR APPLICATION NUMBER: 60/101476
PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/107783
PRIOR FILING DATE: 1998-11-10
PRIOR APPLICATION NUMBER: 60/108849
PRIOR FILING DATE: 1998-11-18
PRIOR APPLICATION NUMBER: 60/112420
PRIOR FILING DATE: 1998-12-15
PRIOR APPLICATION NUMBER: 60/113286
PRIOR FILING DATE: 1998-12-22
PRIOR APPLICATION NUMBER: 60/115554
PRIOR FILING DATE: 1999-01-12
PRIOR APPLICATION NUMBER: 60/115558
PRIOR FILING DATE: 1999-01-12
PRIOR APPLICATION NUMBER: 60/116533
PRIOR FILING DATE: 1999-01-20
PRIOR APPLICATION NUMBER: 60/123618
PRIOR FILING DATE: 1999-03-10
PRIOR APPLICATION NUMBER: 60/131294
PRIOR FILING DATE: 1999-04-07
PRIOR APPLICATION NUMBER: 60/140650
PRIOR FILING DATE: 1999-06-22
PRIOR APPLICATION NUMBER: 60/141037
PRIOR FILING DATE: 1999-06-23
PRIOR APPLICATION NUMBER: 60/144758
PRIOR FILING DATE: 1999-07-20
PRIOR APPLICATION NUMBER: 60/162506
PRIOR FILING DATE: 1999-10-29
PRIOR APPLICATION NUMBER: 60/170262
PRIOR FILING DATE: 1999-12-09
PRIOR APPLICATION NUMBER: 60/187202
PRIOR FILING DATE: 2000-03-03
PRIOR APPLICATION NUMBER: 60/209832
PRIOR FILING DATE: 2000-06-05
PRIOR APPLICATION NUMBER: 60/232887
PRIOR FILING DATE: 2000-09-15
PRIOR APPLICATION NUMBER: 09/180997
PRIOR FILING DATE: 1998-11-19
PRIOR APPLICATION NUMBER: 09/218517
PRIOR FILING DATE: 1998-12-22
PRIOR APPLICATION NUMBER: 09/284291
PRIOR FILING DATE: 1999-04-12
PRIOR APPLICATION NUMBER: 09/380137
PRIOR FILING DATE: 1999-08-25
PRIOR APPLICATION NUMBER: 09/380138
PRIOR FILING DATE: 1999-08-25
PRIOR APPLICATION NUMBER: 09/380913
PRIOR FILING DATE: 1999-09-09
PRIOR APPLICATION NUMBER: 09/403297
PRIOR FILING DATE: 1999-10-18
PRIOR APPLICATION NUMBER: 09/423741
PRIOR FILING DATE: 1999-11-10
PRIOR APPLICATION NUMBER: 09/709238
PRIOR FILING DATE: 2000-11-08
PRIOR APPLICATION NUMBER: 09/802706
PRIOR FILING DATE: 2001-03-09
PRIOR APPLICATION NUMBER: 09/866034
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 09/872035
PRIOR FILING DATE: 2001-06-01
PRIOR APPLICATION NUMBER: 09/882636
PRIOR FILING DATE: 2001-06-14
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 09/924419
PRIOR FILING DATE: 2001-08-06
PRIOR APPLICATION NUMBER: 09/927796
PRIOR FILING DATE: 2001-08-06
PRIOR APPLICATION NUMBER: 09/929404
PRIOR FILING DATE: 2001-08-13
PRIOR APPLICATION NUMBER: 09/941992
PRIOR FILING DATE: 2001-08-28
PRIOR APPLICATION NUMBER: 09/946374
PRIOR FILING DATE: 2001-09-04
PRIOR APPLICATION NUMBER: PCT/US98/18824
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: PCT/US99/00106
PRIOR FILING DATE: 1999-01-05
PRIOR APPLICATION NUMBER: PCT/US99/05028
PRIOR FILING DATE: 1999-03-08
PRIOR APPLICATION NUMBER: PCT/US99/08615
PRIOR FILING DATE: 1999-04-20
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: 1999-06-02
PRIOR APPLICATION NUMBER: PCT/US99/20111
PRIOR FILING DATE: 1999-09-01
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28551
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28634
PRIOR FILING DATE: 1999-12-01
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00376
PRIOR FILING DATE: 2000-01-06
PRIOR APPLICATION NUMBER: PCT/US00/03565
PRIOR FILING DATE: 2000-02-11
PRIOR APPLICATION NUMBER: PCT/US00/04341
PRIOR FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: PCT/US00/04342
PRIOR FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: 2000-03-02
PRIOR APPLICATION NUMBER: PCT/US00/06884
PRIOR FILING DATE: 2000-03-15
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: 2000-03-30
PRIOR APPLICATION NUMBER: PCT/US00/13705

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; PRIOR FILING DATE: 2000-05-17
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: 2000-05-22
; PRIOR APPLICATION NUMBER: PCT/US00/14941
; PRIOR FILING DATE: 2000-05-30
; PRIOR APPLICATION NUMBER: PCT/US00/15264
; PRIOR FILING DATE: 2000-06-02
; PRIOR APPLICATION NUMBER: PCT/US00/22031
; PRIOR FILING DATE: 2000-08-11
; PRIOR APPLICATION NUMBER: PCT/US00/23522
; PRIOR FILING DATE: 2000-08-23
; PRIOR APPLICATION NUMBER: PCT/US00/30873
; PRIOR FILING DATE: 2000-11-10
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: PCT/US01/06666
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: PCT/US01/17092
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: PCT/US01/17800
; PRIOR FILING DATE: 2001-06-01
; PRIOR APPLICATION NUMBER: PCT/US01/19692
; PRIOR FILING DATE: 2001-06-20
; PRIOR APPLICATION NUMBER: PCT/US01/21066
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: PCT/US01/21735
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: PCT/US01/27099
; PRIOR FILING DATE: 2001-08-29
; NUMBER OF SEQ ID NOS: 91
; SEQ ID NO 40
; LENGTH: 198
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-001-054-40

Query Match      70.4%; Score 38; DB 4; Length 198;
Best Local Similarity 75.0%; Pred. No. 98;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 ISEYRHYC 9
Db      64 ISQLRHYC 71

RESULT 49
US-10-028-072-550
; Sequence 550, Application US/10028072
; Publication No. US20030004311A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: Deforge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerltzen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Gurney, Austin J.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang
; TITLE OF INVENTION:
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/028,072
; CURRENT FILING DATE: 2001-12-19
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; PRIOR APPLICATION NUMBER: 60/049911
; PRIOR FILING DATE: 1997-06-18
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; PRIOR APPLICATION NUMBER: 60/059588
; PRIOR FILING DATE: 1997-09-19
; PRIOR APPLICATION NUMBER: 60/059836
; PRIOR FILING DATE: 1997-09-24
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/062285
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/062287
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/062814
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/062816
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/063045
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/063082
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/063127
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/063327
; PRIOR FILING DATE: 1997-10-27
; PRIOR APPLICATION NUMBER: 60/063329
; PRIOR FILING DATE: 1997-10-27
; PRIOR APPLICATION NUMBER: 60/063550
; PRIOR FILING DATE: 1997-10-28
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; PRIOR APPLICATION NUMBER: 60/063704
; PRIOR FILING DATE: 1997-10-29
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; PRIOR FILING DATE: 1997-10-29
; PRIOR APPLICATION NUMBER: 60/063735
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; PRIOR FILING DATE: 1997-10-29
; PRIOR APPLICATION NUMBER: 60/063755
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; PRIOR APPLICATION NUMBER: 60/064248
; PRIOR FILING DATE: 1997-11-03
; PRIOR APPLICATION NUMBER: 60/064809
; PRIOR FILING DATE: 1997-11-07
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065846
; PRIOR FILING DATE: 1997-11-17
; PRIOR APPLICATION NUMBER: 60/066364
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/066453
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/066511
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/069212
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PRIOR FILING DATE: 1997-12-11
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PRIOR FILING DATE: 1997-12-11
PRIOR APPLICATION NUMBER: 60/069334
PRIOR FILING DATE: 1997-12-11
PRIOR APPLICATION NUMBER: 60/069594
PRIOR FILING DATE: 1997-12-16
PRIOR APPLICATION NUMBER: 60/072320
PRIOR FILING DATE: 1998-01-23
PRIOR APPLICATION NUMBER: 60/073612
PRIOR FILING DATE: 1998-02-04
PRIOR APPLICATION NUMBER: 60/074086
PRIOR FILING DATE: 1998-02-09
PRIOR APPLICATION NUMBER: 60/074092
PRIOR FILING DATE: 1998-02-09
PRIOR APPLICATION NUMBER: 60/077791
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079663
PRIOR FILING DATE: 1998-02-27
PRIOR APPLICATION NUMBER: 60/079728
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/080165
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/081203
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081229
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081695
PRIOR FILING DATE: 1998-04-14
PRIOR APPLICATION NUMBER: 60/081817
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081818
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/082999
PRIOR FILING DATE: 1998-04-24
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/083545
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084627
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084637
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/085149
PRIOR FILING DATE: 1998-05-12
PRIOR APPLICATION NUMBER: 60/085323
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085338
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085339
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085579
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085697
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085704
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/086414
PRIOR FILING DATE: 1998-05-22
PRIOR APPLICATION NUMBER: 60/086430
PRIOR FILING DATE: 1998-05-22
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/088026
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088730
PRIOR FILING DATE: 1998-06-10

PRIOR APPLICATION NUMBER: 60/088741
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088810
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088858
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/089532
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089599
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089907
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089947
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/090349
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090429
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090445
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090538
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090863
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PRIOR APPLICATION NUMBER: 60/091360
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Query Match 70.4%; Score 38; DB 4; Length 198;
Best Local Similarity 75.0%; Pred. No. 98;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ISEVRYHC 9
Db 64 ISQLRHYC 71

RESULT 50
US-10-140-808-550
Sequence 550, Application US/10140808
Publication No. US20030017563A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: DeForge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerlitsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330R1C182
CURRENT FILING DATE: 2002-05-07
Prior Application removed - See File Wrapper or Palm
SEQ ID NO 550
LENGTH: 198
TYPE: PRT
ORGANISM: Homo Sapien

US-10-140-808-550

Query Match 70.4%; Score 38; DB 4; Length 198;
 Best Local Similarity 75.0%; Pred. No. 98;
 Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 2 ISEYRHYC 9
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 Db 64 ISQLRHYC 71

Search completed: May 5, 2006, 08:07:39
 Job time : 67 secs

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OM protein - protein search, using SW model

Run on: May 5, 2006, 07:56:56 ; Search time 8.4 Seconds
(without alignments)
49.591 Million cell updates/sec

Title: US-08-170-344-11

Perfect score: 54

Sequence: 1 KISEXRYHC 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0

Maximum DB seq length: 200000000

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Maximum Match 100%
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Database :

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	54	100.0	10	9	US-10-530-061-506
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3	54	100.0	158	11	US-11-206-138-3
4	54	100.0	248	9	US-10-530-253-1
5	54	100.0	248	9	US-10-530-253-3
6	54	100.0	248	9	US-10-530-253-7
7	54	100.0	248	9	US-10-530-253-9
8	54	100.0	248	9	US-10-530-253-11
9	54	100.0	248	9	US-10-530-253-12
10	54	100.0	256	11	US-11-192-923A-2
11	50	92.6	10	9	US-10-530-061-505
12	45	83.3	10	9	US-10-530-061-40
13	45	83.3	10	9	US-10-530-061-475
14	45	83.3	10	9	US-10-530-061-554
15	45	83.3	10	9	US-10-530-061-599
16	45	83.3	10	9	US-10-530-061-775
17	45	83.3	148	9	US-10-530-253-22
18	45	83.3	149	9	US-10-530-253-17
19	45	83.3	149	9	US-10-530-253-24
20	44	81.5	10	9	US-10-530-061-598
21	41	75.9	10	9	US-10-530-061-124

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23	41	75.9	10	9	US-10-530-061-850	Sequence 850, App
24	40	74.1	9	9	US-10-530-061-41	Sequence 41, App1
25	40	74.1	9	9	US-10-530-061-122	Sequence 122, App
26	40	74.1	9	9	US-10-530-061-776	Sequence 776, App
27	40	74.1	9	9	US-10-530-061-54	Sequence 54, App1
28	38	70.4	28	11	US-11-144-947-640	Sequence 640, App
29	38	70.4	198	9	US-10-131-826A-550	Sequence 550, App
30	38	70.4	198	9	US-10-973-115B-550	Sequence 550, App
31	38	70.4	198	9	US-10-218-784-226	Sequence 226, App
32	38	70.4	198	9	US-10-219-061-226	Sequence 226, App
33	38	70.4	198	9	US-10-219-062-226	Sequence 226, App
34	38	70.4	198	9	US-10-219-064-226	Sequence 226, App
35	38	70.4	198	9	US-10-233-134-226	Sequence 226, App
36	38	70.4	198	9	US-10-137-873A-550	Sequence 550, App
37	38	70.4	198	9	US-10-152-370-550	Sequence 550, App
38	38	70.4	198	9	US-11-250-153-550	Sequence 550, App
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44	37	68.5	9	9	US-10-530-061-123	Sequence 123, App
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47	35	64.8	123	11	US-11-172-610-10	Sequence 10, App1
48	35	64.8	149	9	US-10-530-253-18	Sequence 18, App1
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50	34	63.0	10	9	US-10-530-061-853	Sequence 853, App
51	34	63.0	106	11	US-11-172-1740-1328	Sequence 1328, App
52	34	63.0	235	11	US-11-096-568A-30604	Sequence 30604, A
53	34	63.0	296	11	US-11-096-568A-27880	Sequence 27880, A
54	34	63.0	327	11	US-11-096-568A-27879	Sequence 27879, A
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56	34	63.0	368	9	US-10-974-127A-47	Sequence 47, App1
57	34	63.0	368	11	US-11-096-568A-27878	Sequence 27878, A
58	34	63.0	418	11	US-11-244-219-2	Sequence 2, App1
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61	33	61.1	125	11	US-11-079-463-5485	Sequence 207, App
62	33	61.1	130	9	US-10-485-517-207	Sequence 1967, App
63	33	61.1	133	9	US-10-793-626-1962	Sequence 8253, App
64	33	61.1	193	11	US-11-079-463-8253	Sequence 9800, App
65	33	61.1	292	11	US-11-079-463-9800	Sequence 11063, A
66	33	61.1	304	11	US-11-087-099-11063	Sequence 25859, A
67	33	61.1	304	11	US-11-087-099-11063	Sequence 1590, App
68	33	61.1	310	11	US-11-188-298-1606	Sequence 1606, App
69	33	61.1	371	11	US-11-079-463-6100	Sequence 6100, App
70	33	61.1	386	11	US-11-079-463-6100	Sequence 1321, App
71	33	61.1	416	11	US-11-087-099-1321	Sequence 5, App1
72	33	61.1	456	9	US-10-860-501-5	Sequence 5, App1
73	33	61.1	456	9	US-10-956-882-5	Sequence 8790, App
74	33	61.1	493	11	US-11-079-463-8790	Sequence 4, App1
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77	33	61.1	532	9	US-10-860-501-7	Sequence 7, App1
78	33	61.1	532	9	US-10-956-882-7	Sequence 7, App1
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82	32	59.3	9	9	US-10-530-061-125	Sequence 125, App
83	32	59.3	10	9	US-10-530-061-127	Sequence 127, App
84	32	59.3	10	9	US-10-530-061-851	Sequence 851, App
85	32	59.3	10	9	US-10-530-061-852	Sequence 852, App
86	32	59.3	10	9	US-10-530-061-852	Sequence 412, App
87	32	59.3	53	11	US-11-000-463-412	Sequence 884, App
88	32	59.3	53	11	US-11-000-463-884	Sequence 5182, App
89	32	59.3	97	11	US-11-087-099-5182	Sequence 21, App1
90	32	59.3	151	9	US-10-530-253-21	Sequence 1163, App
91	32	59.3	178	9	US-10-506-454-1163	Sequence 1075, App
92	32	59.3	205	11	US-11-087-099-1075	Sequence 11194, A
93	32	59.3	215	11	US-11-087-099-11194	Sequence 156, App
94	32	59.3	240	9	US-10-745-586-156	

95	32	59.3	346	11	US-11-188-298-9425	Sequence 8425, Ap	168	30	55.6	311	11	US-11-188-298-379	Sequence 379, App
96	32	55.3	491	11	US-11-188-298-18885	Sequence 18885, A	169	30	55.6	314	11	US-11-188-298-9691	Sequence 9691, Ap
97	32	55.3	779	11	US-11-188-298-12100	Sequence 12100, A	170	30	55.6	315	11	US-11-188-298-587	Sequence 587, App
98	32	55.3	779	11	US-11-188-298-14343	Sequence 14343, A	171	30	55.6	324	11	US-11-087-099-4433	Sequence 4433, Ap
99	32	55.3	816	11	US-11-090-439-48	Sequence 48, Appl	172	30	55.6	324	11	US-11-188-298-15103	Sequence 15103, A
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102	31	57.4	85	9	US-10-491-468-35	Sequence 35, Appl	175	30	55.6	358	11	US-11-045-004-1163	Sequence 1163, Ap
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105	31	57.4	220	11	US-11-096-568A-25698	Sequence 25698, A	178	30	55.6	376	11	US-11-012-762-20	Sequence 20, Appl
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110	31	57.4	374	9	US-10-520-820-4	Sequence 4, Appl1	183	30	55.6	437	9	US-10-973-115B-466	Sequence 466, App
111	31	57.4	385	11	US-11-074-176-192	Sequence 192, App	184	30	55.6	437	9	US-10-213-535-16	Sequence 16, Appl
112	31	57.4	385	11	US-11-079-463-8385	Sequence 8385, Ap	185	30	55.6	437	9	US-10-218-784-162	Sequence 162, App
113	31	57.4	566	11	US-11-188-298-6791	Sequence 6791, Ap	186	30	55.6	437	9	US-10-219-061-162	Sequence 162, App
114	31	57.4	759	11	US-11-087-039-3393	Sequence 3393, Ap	187	30	55.6	437	9	US-10-219-062-162	Sequence 162, App
115	31	57.4	809	11	US-11-087-039-12454	Sequence 12454, A	188	30	55.6	437	9	US-10-233-134-162	Sequence 162, App
116	31	57.4	886	11	US-11-188-298-17978	Sequence 17978, A	189	30	55.6	437	9	US-10-137-873A-466	Sequence 466, App
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130	30	55.6	94	11	US-11-126-126-14	Sequence 14, Appl	203	30	55.6	802	9	US-10-194-487-312	Sequence 312, App
131	30	55.6	99	11	US-11-172-740-1324	Sequence 1324, Ap	204	30	55.6	802	9	US-10-195-883-312	Sequence 312, App
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134	30	55.6	106	11	US-11-126-126-4	Sequence 4, Appl1	207	30	55.6	802	9	US-10-195-888-312	Sequence 312, App
135	30	55.6	106	11	US-11-126-126-4	Sequence 8, Appl1	208	30	55.6	909	11	US-11-076-187-4	Sequence 4, Appl1
136	30	55.6	107	9	US-10-467-657-6644	Sequence 6644, Ap	209	30	55.6	1058	11	US-11-096-568A-27717	Sequence 27717, A
137	30	55.6	109	11	US-11-126-126-6	Sequence 3210, Ap	210	30	55.6	1061	11	US-11-096-568A-27716	Sequence 27716, A
138	30	55.6	109	11	US-11-087-039-3210	Sequence 5636, Ap	211	30	55.6	1094	11	US-11-096-568A-27715	Sequence 27715, A
139	30	55.6	110	11	US-10-467-657-5636	Sequence 3086, Ap	212	30	55.6	1123	11	US-11-019-711-71	Sequence 71, Appl
140	30	55.6	110	11	US-11-072-512-3086	Sequence 1144, Ap	213	30	55.6	1531	8	US-10-505-928-853	Sequence 853, Appl
141	30	55.6	128	11	US-11-096-568A-1144	Sequence 22, Appl	214	30	55.6	1604	11	US-11-037-243-73	Sequence 73, Appl
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143	30	55.6	149	9	US-10-530-253-16	Sequence 2, Appl	216	30	55.6	1604	11	US-11-037-243-73	Sequence 73, Appl
144	30	55.6	161	11	US-11-126-126-2	Sequence 3, Appl1	217	29	53.7	13	11	US-11-145-961-118	Sequence 118, App
145	30	55.6	180	11	US-11-057-923-3	Sequence 7046, Ap	218	29	53.7	15	9	US-10-467-657-5776	Sequence 5776, App
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149	30	55.6	201	11	US-11-096-568A-1142	Sequence 1142, Ap	222	29	53.7	99	11	US-11-264-096-1039	Sequence 1039, Ap
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243	29	53.7	161	11	US-11-172-740-1018	Sequence 1018, Ap	316	29	53.7	598	11	US-11-188-298-17271	Sequence 17271, A
244	29	53.7	168	9	US-10-793-626-2430	Sequence 2430, Ap	317	29	53.7	598	11	US-11-188-298-10619	Sequence 20619, A
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246	29	53.7	172	11	US-11-172-740-1026	Sequence 1026, Ap	319	29	53.7	600	11	US-11-188-298-2903	Sequence 2903, Ap
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249	29	53.7	185	11	US-11-096-568A-25833	Sequence 25833, A	322	29	53.7	616	11	US-11-188-298-13709	Sequence 13709, A
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253	29	53.7	242	11	US-11-096-568A-236	Sequence 236, App	326	29	53.7	698	9	US-10-995-561-939	Sequence 939, App
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312	29	53.7	567	11	US-10-995-561-813	Sequence 813, App	385	28	51.9	172	11	US-11-172-740-794	Sequence 792, App
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394	28	51.9	253	11	US-11-054-515-1859	Sequence 1859, App	467	28	51.9	475	11	US-11-057-012-70	Sequence 70, Appl1
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427	28	51.9	352	11	US-11-264-096-959	Sequence 859, App	500	28	51.9	635	9	US-10-995-561-996	Sequence 996, App
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451	28	51.9	419	11	US-11-072-512-3262	Sequence 3262, App	524	28	51.9	1433	11	US-11-114-362-1	Sequence 1, Appl1
452	28	51.9	423	11	US-11-098-686-11089	Sequence 11089, App	525	28	51.9	1871	9	US-10-877-346-42	Sequence 42, Appl1
453	28	51.9	423	11	US-11-087-099-527	Sequence 527, App	526	28	51.9	4074	8	US-10-501-834-2	Sequence 2, Appl1
454	28	51.9	423	11	US-11-087-099-9700	Sequence 9700, App	527	27.5	50.9	552	11	US-11-188-298-11529	Sequence 11529, A
455	28	51.9	425	11	US-11-096-568A-12787	Sequence 12787, A	528	27.5	50.9	798	11	US-11-107-028-2	Sequence 2, Appl1
456	28	51.9	436	11	US-11-150-845-32	Sequence 32, Appl1	529	27.5	50.9	908	11	US-10-467-657-1070	Sequence 1070, App
457	28	51.9	436	11	US-11-150-487-32	Sequence 32, Appl1	530	27	50.0	6	9	US-10-857-435A-586	Sequence 586, App
458	28	51.9	439	11	US-11-096-568A-20431	Sequence 20431, A	531	27	50.0	10	9	US-10-530-061-56	Sequence 56, Appl1
459	28	51.9	443	11	US-11-096-568A-20430	Sequence 20430, A	532	27	50.0	10	9	US-10-530-061-504	Sequence 504, App

533	27	50.0	10	9	US-10-530-061-538	Sequence 538, App	606	27	50.0	237	11	US-11-188-298-2866	Sequence 2866, App
534	27	50.0	10	9	US-10-530-061-552	Sequence 552, App	607	27	50.0	238	11	US-11-087-099-3032	Sequence 3032, App
535	27	50.0	10	9	US-10-530-061-597	Sequence 597, App	608	27	50.0	240	11	US-11-188-298-18906	Sequence 18906, A
536	27	50.0	12	9	US-10-895-064-1665	Sequence 1665, Ap	609	27	50.0	244	9	US-10-784-004-1173	Sequence 1173, Ap
537	27	50.0	12	11	US-11-129-741-1665	Sequence 1665, Ap	610	27	50.0	244	9	US-10-784-004-1221	Sequence 1221, Ap
538	27	50.0	33	9	US-10-895-064-2365	Sequence 2365, Ap	611	27	50.0	246	11	US-11-188-298-20243	Sequence 20243, A
539	27	50.0	33	11	US-11-129-741-2365	Sequence 2365, Ap	612	27	50.0	249	9	US-10-131-826A-110	Sequence 110, App
540	27	50.0	42	11	US-11-177-509-51	Sequence 51, Appl	613	27	50.0	249	9	US-10-137-873A-110	Sequence 110, App
541	27	50.0	42	11	US-11-177-509-52	Sequence 52, Appl	614	27	50.0	249	9	US-10-137-873A-110	Sequence 110, App
542	27	50.0	42	11	US-11-177-509-53	Sequence 53, Appl	615	27	50.0	249	9	US-11-290-370-110	Sequence 110, App
543	27	50.0	42	11	US-11-177-509-54	Sequence 54, Appl	616	27	50.0	257	11	US-10-995-561-747	Sequence 747, App
544	27	50.0	42	11	US-11-177-509-55	Sequence 55, Appl	617	27	50.0	257	11	US-11-188-298-3627	Sequence 3627, Ap
545	27	50.0	42	11	US-11-177-509-56	Sequence 56, Appl	618	27	50.0	257	11	US-11-228-039-2	Sequence 4345, Ap
546	27	50.0	42	11	US-11-177-509-57	Sequence 57, Appl	619	27	50.0	258	11	US-11-188-298-5444	Sequence 5444, Ap
547	27	50.0	42	11	US-11-177-509-58	Sequence 58, Appl	620	27	50.0	258	11	US-11-096-568A-6543	Sequence 6543, Ap
548	27	50.0	42	11	US-11-177-509-59	Sequence 59, Appl	621	27	50.0	260	11	US-11-096-568A-6542	Sequence 6542, Ap
549	27	50.0	42	11	US-11-177-509-60	Sequence 60, Appl	622	27	50.0	262	11	US-11-096-568A-23471	Sequence 23471, A
550	27	50.0	42	11	US-11-177-509-61	Sequence 61, Appl	623	27	50.0	266	11	US-11-096-568A-11036	Sequence 11036, A
551	27	50.0	42	11	US-11-177-509-62	Sequence 62, Appl	624	27	50.0	267	11	US-11-096-568A-11036	Sequence 23, Appl
552	27	50.0	42	11	US-11-177-509-63	Sequence 63, Appl	625	27	50.0	268	9	US-10-491-468-23	Sequence 3346, A
553	27	50.0	42	11	US-11-177-509-64	Sequence 64, Appl	626	27	50.0	269	11	US-11-096-568A-33646	Sequence 33506, A
554	27	50.0	42	11	US-11-177-509-65	Sequence 65, Appl	627	27	50.0	271	11	US-11-096-568A-31506	Sequence 5475, Ap
555	27	50.0	42	11	US-11-177-509-66	Sequence 66, Appl	628	27	50.0	271	11	US-11-188-298-5475	Sequence 1814, Ap
556	27	50.0	42	11	US-11-177-509-68	Sequence 68, Appl	629	27	50.0	274	11	US-11-188-298-1814	Sequence 2683, Ap
557	27	50.0	42	11	US-11-177-509-69	Sequence 69, Appl	630	27	50.0	274	11	US-11-188-298-2798	Sequence 2798, Ap
558	27	50.0	42	11	US-11-177-509-70	Sequence 70, Appl	631	27	50.0	274	11	US-11-188-298-2798	Sequence 6657, Ap
559	27	50.0	42	11	US-11-177-509-71	Sequence 71, Appl	632	27	50.0	274	11	US-11-188-298-6657	Sequence 81505, A
560	27	50.0	42	11	US-11-177-509-72	Sequence 72, Appl	633	27	50.0	275	11	US-11-096-558A-31505	Sequence 8435, Ap
561	27	50.0	42	11	US-11-177-509-73	Sequence 73, Appl	634	27	50.0	278	11	US-11-188-298-3932	Sequence 3932, Ap
562	27	50.0	42	11	US-11-177-509-74	Sequence 74, Appl	635	27	50.0	280	11	US-11-188-298-6845	Sequence 6845, Ap
563	27	50.0	42	11	US-11-177-509-75	Sequence 75, Appl	636	27	50.0	280	11	US-11-188-298-18731	Sequence 18731, A
564	27	50.0	42	11	US-11-177-509-76	Sequence 76, Appl	637	27	50.0	280	11	US-11-188-298-1189	Sequence 14260, Ap
565	27	50.0	42	11	US-11-177-509-77	Sequence 77, Appl	638	27	50.0	281	11	US-11-188-298-21360	Sequence 21360, A
566	27	50.0	42	11	US-11-177-509-78	Sequence 78, Appl	639	27	50.0	281	11	US-11-188-298-19842	Sequence 19842, A
567	27	50.0	42	11	US-11-177-509-79	Sequence 79, Appl	640	27	50.0	283	11	US-11-045-004-1161	Sequence 1161, Ap
568	27	50.0	42	11	US-11-177-509-80	Sequence 80, Appl	641	27	50.0	285	11	US-11-226-657-55	Sequence 55, Appl
569	27	50.0	42	11	US-11-177-509-81	Sequence 81, Appl	642	27	50.0	287	11	US-10-467-657-1870	Sequence 1870, Ap
570	27	50.0	42	11	US-11-177-509-82	Sequence 82, Appl	643	27	50.0	288	9	US-11-096-568A-13015	Sequence 13015, A
571	27	50.0	42	11	US-11-177-509-83	Sequence 83, Appl	644	27	50.0	289	11	US-10-821-234-1025	Sequence 1025, A
572	27	50.0	103	11	US-11-079-463-7359	Sequence 7355, Ap	645	27	50.0	291	9	US-11-045-004-251	Sequence 251, App
573	27	50.0	109	11	US-11-008-570-90	Sequence 90, Appl	646	27	50.0	296	11	US-11-096-568A-19767	Sequence 19767, A
574	27	50.0	110	11	US-11-120-308-48	Sequence 48, Appl	647	27	50.0	296	11	US-11-096-568A-19841	Sequence 19841, A
575	27	50.0	113	11	US-11-264-096-1539	Sequence 1533, Ap	648	27	50.0	299	11	US-11-079-463-8690	Sequence 8690, Ap
576	27	50.0	113	11	US-11-264-096-1540	Sequence 1540, Ap	649	27	50.0	300	11	US-11-079-463-9374	Sequence 9374, Ap
577	27	50.0	118	11	US-11-121-438-33	Sequence 33, Appl	650	27	50.0	304	11	US-10-506-454-1354	Sequence 1354, Ap
578	27	50.0	122	11	US-11-230-251-30	Sequence 30, Appl	651	27	50.0	309	9	US-11-079-463-8956	Sequence 8956, Ap
579	27	50.0	122	11	US-11-188-298-11184	Sequence 11184, A	652	27	50.0	312	11	US-11-096-568A-23470	Sequence 23470, A
580	27	50.0	132	11	US-11-096-568A-6936	Sequence 6936, Ap	653	27	50.0	315	11	US-11-172-740-1608	Sequence 1608, Ap
581	27	50.0	134	9	US-10-467-657-6860	Sequence 6860, Ap	654	27	50.0	320	11	US-11-202-566-1	Sequence 1, Appl1
582	27	50.0	143	9	US-10-793-626-112	Sequence 112, App	655	27	50.0	323	11	US-11-087-099-9909	Sequence 9909, Ap
583	27	50.0	143	9	US-10-793-626-1940	Sequence 1940, App	656	27	50.0	324	11	US-11-087-099-9254	Sequence 9254, Ap
584	27	50.0	163	11	US-11-096-568A-21919	Sequence 21919, A	657	27	50.0	324	11	US-11-096-568A-1830	Sequence 1830, Ap
585	27	50.0	166	11	US-11-176-830-1008	Sequence 1008, Ap	658	27	50.0	327	11	US-11-087-099-9545	Sequence 9545, Ap
586	27	50.0	171	11	US-11-188-298-18315	Sequence 18315, A	659	27	50.0	327	11	US-11-087-099-9254	Sequence 9254, Ap
587	27	50.0	184	11	US-11-096-568A-33648	Sequence 33648, A	660	27	50.0	328	11	US-11-096-568A-1831	Sequence 1831, Ap
588	27	50.0	187	11	US-11-188-298-3348	Sequence 3348, Ap	661	27	50.0	328	11	US-11-202-566-25	Sequence 25, Appl
589	27	50.0	189	9	US-10-467-657-6854	Sequence 6854, Ap	662	27	50.0	334	9	US-10-995-561-740	Sequence 740, App
590	27	50.0	189	9	US-10-467-657-7850	Sequence 7856, Ap	663	27	50.0	334	9	US-11-096-568A-13014	Sequence 13014, A
591	27	50.0	192	11	US-11-096-568A-33647	Sequence 33647, A	664	27	50.0	336	11	US-11-202-566-24	Sequence 24, Appl
592	27	50.0	193	11	US-11-096-568A-23472	Sequence 23472, A	665	27	50.0	338	11	US-11-096-568A-3829	Sequence 3829, Ap
593	27	50.0	196	11	US-11-188-298-21673	Sequence 21673, A	666	27	50.0	348	11	US-11-188-299-13346	Sequence 13346, A
594	27	50.0	202	11	US-11-096-568A-438	Sequence 438, App	667	27	50.0	356	11	US-11-096-568A-19389	Sequence 19389, A
595	27	50.0	205	11	US-11-302-566-5	Sequence 5, Appl1	668	27	50.0	357	9	US-10-878-556A-83	Sequence 83, Appl
596	27	50.0	208	11	US-11-079-463-7850	Sequence 7850, Ap	669	27	50.0	357	11	US-11-202-566-21	Sequence 21, Appl
597	27	50.0	209	11	US-11-302-566-2	Sequence 2, Appl1	670	27	50.0				
598	27	50.0	211	11	US-11-124-368A-175	Sequence 175, App	671	27	50.0				
599	27	50.0	211	11	US-11-124-368A-176	Sequence 176, App	672	27	50.0				
600	27	50.0	213	9	US-10-467-657-4448	Sequence 4448, Ap	673	27	50.0				
601	27	50.0	221	11	US-11-188-298-15099	Sequence 15099, A	674	27	50.0				
602	27	50.0	227	9	US-10-878-556A-69	Sequence 69, Appl	675	27	50.0				
603	27	50.0	227	9	US-11-074-176-136	Sequence 136, App	676	27	50.0				
604	27	50.0	228	11	US-11-096-568A-19768	Sequence 19768, A	677	27	50.0				
605	27	50.0	234	11	US-11-096-568A-6544	Sequence 6544, Ap	678	27	50.0				

679	27	50.0	357	11	US-11-202-566-23	Sequence 23, Appl	752	27	50.0	470	9	US-10-467-657-7226	Sequence 7226, Ap
680	27	50.0	357	11	US-11-096-568A-19840	Sequence 19840, A	753	27	50.0	470	9	US-10-467-657-8118	Sequence 8118, Ap
681	27	50.0	358	9	US-10-467-657-7030	Sequence 7030, Ap	754	27	50.0	470	11	US-11-121-438-15	Sequence 35, Appl
682	27	50.0	359	11	US-11-012-762-58	Sequence 58, Appl	755	27	50.0	473	11	US-11-188-298-1133	Sequence 1133, Ap
683	27	50.0	359	11	US-11-096-568A-18164	Sequence 18164, A	756	27	50.0	474	9	US-10-986-501-249	Sequence 249, Appl
684	27	50.0	360	11	US-11-087-099-3115	Sequence 3115, A	757	27	50.0	478	11	US-11-096-568A-18729	Sequence 18729, A
685	27	50.0	362	11	US-11-188-298-5068	Sequence 5068, Ap	758	27	50.0	481	11	US-11-096-568A-7220	Sequence 7220, Ap
686	27	50.0	364	11	US-11-096-568A-18262	Sequence 18262, A	759	27	50.0	482	11	US-11-045-004-2627	Sequence 2627, Ap
687	27	50.0	364	11	US-11-096-568A-19766	Sequence 19766, A	760	27	50.0	483	11	US-11-087-099-1687	Sequence 1687, Ap
688	27	50.0	365	9	US-10-521-053-4	Sequence 4, Appl1	761	27	50.0	483	11	US-11-188-298-3469	Sequence 3469, Ap
689	27	50.0	366	9	US-10-467-657-7024	Sequence 7024, Ap	762	27	50.0	484	11	US-11-096-568A-10466	Sequence 10466, A
690	27	50.0	366	9	US-10-467-657-7964	Sequence 7964, Ap	763	27	50.0	484	11	US-11-096-568A-19387	Sequence 19387, A
691	27	50.0	370	9	US-10-204-639-42	Sequence 42, Appl	764	27	50.0	485	11	US-11-072-512-3419	Sequence 3419, Ap
692	27	50.0	378	11	US-11-202-566-22	Sequence 22, Appl	765	27	50.0	490	11	US-11-072-512-2640	Sequence 2640, Ap
693	27	50.0	379	11	US-11-172-740-707	Sequence 707, Appl	766	27	50.0	491	9	US-10-995-561-793	Sequence 743, Appl
694	27	50.0	384	11	US-11-240-769-71	Sequence 71, Appl	767	27	50.0	500	11	US-11-188-298-7044	Sequence 7044, Ap
695	27	50.0	386	11	US-11-188-298-10872	Sequence 10872, A	768	27	50.0	502	11	US-11-188-298-2098	Sequence 2098, Ap
696	27	50.0	387	9	US-10-510-386-212	Sequence 212, Appl	769	27	50.0	505	11	US-11-096-568A-10465	Sequence 10465, A
697	27	50.0	388	11	US-11-096-568A-18163	Sequence 18163, A	770	27	50.0	512	11	US-10-995-561-745	Sequence 745, Appl
698	27	50.0	390	8	US-10-370-959-148	Sequence 148, Appl	771	27	50.0	512	11	US-11-096-568A-10464	Sequence 10464, A
699	27	50.0	391	9	US-10-995-561-739	Sequence 739, Appl	772	27	50.0	530	11	US-11-096-568A-31901	Sequence 31901, A
700	27	50.0	391	11	US-11-045-004-2697	Sequence 2697, Ap	773	27	50.0	533	11	US-11-087-099-5854	Sequence 5854, Ap
701	27	50.0	392	11	US-11-188-298-5529	Sequence 5529, Ap	774	27	50.0	540	11	US-11-079-463-6055	Sequence 6055, Ap
702	27	50.0	392	11	US-11-188-298-8204	Sequence 8204, Ap	775	27	50.0	543	11	US-11-264-096-1211	Sequence 1211, Ap
703	27	50.0	392	11	US-11-188-298-14860	Sequence 14860, A	776	27	50.0	550	11	US-11-264-096-1284	Sequence 1284, Ap
704	27	50.0	393	11	US-11-172-740-38	Sequence 38, Appl	777	27	50.0	554	11	US-11-264-096-1210	Sequence 1210, Ap
705	27	50.0	393	11	US-11-188-298-7760	Sequence 7760, Ap	778	27	50.0	554	11	US-11-188-298-17308	Sequence 17308, A
706	27	50.0	393	11	US-11-188-298-10324	Sequence 10324, A	779	27	50.0	585	9	US-10-821-234-1489	Sequence 1489, Ap
707	27	50.0	393	11	US-11-188-298-19917	Sequence 19917, A	780	27	50.0	590	9	US-10-632-1150-52	Sequence 52, Appl
708	27	50.0	393	11	US-11-188-298-20388	Sequence 20388, A	781	27	50.0	590	10	US-11-106-014-52	Sequence 52, Appl
709	27	50.0	394	11	US-11-188-298-8142	Sequence 8142, Ap	782	27	50.0	590	11	US-11-073-457-52	Sequence 52, Appl
710	27	50.0	394	11	US-11-188-298-17480	Sequence 17480, A	783	27	50.0	590	11	US-11-073-460-52	Sequence 52, Appl
711	27	50.0	396	11	US-11-188-298-17251	Sequence 17251, A	784	27	50.0	592	9	US-11-079-636-6352	Sequence 6352, Ap
712	27	50.0	406	11	US-11-098-686-10691	Sequence 10691, A	785	27	50.0	593	11	US-11-120-308-54	Sequence 34, Appl
713	27	50.0	409	11	US-11-096-568A-18162	Sequence 18162, A	786	27	50.0	599	11	US-11-090-739-124	Sequence 124, Appl
714	27	50.0	409	11	US-11-096-568A-7898	Sequence 7898, Ap	787	27	50.0	615	11	US-11-232-405A-32	Sequence 32, Appl
715	27	50.0	418	11	US-11-079-463-8151	Sequence 8151, Ap	788	27	50.0	634	11	US-11-087-099-1607	Sequence 1607, Ap
716	27	50.0	420	11	US-11-096-568A-13013	Sequence 13013, A	789	27	50.0	634	11	US-11-188-298-6710	Sequence 6710, Ap
717	27	50.0	425	11	US-11-096-568A-15564	Sequence 25564, A	790	27	50.0	638	9	US-10-995-561-556	Sequence 536, Appl
718	27	50.0	428	11	US-11-138-642-8	Sequence 8, Appl1	791	27	50.0	638	11	US-11-054-281-30	Sequence 30, Appl
719	27	50.0	428	11	US-11-138-882-8	Sequence 8, Appl1	792	27	50.0	638	11	US-11-054-281-111	Sequence 111, Appl
720	27	50.0	428	11	US-11-138-757-9	Sequence 9, Appl1	793	27	50.0	638	11	US-11-054-281-112	Sequence 112, Appl
721	27	50.0	429	11	US-11-096-568A-7221	Sequence 7221, Ap	794	27	50.0	644	11	US-11-045-004-125	Sequence 125, Appl
722	27	50.0	430	11	US-11-079-463-6204	Sequence 6204, Ap	795	27	50.0	645	11	US-11-188-298-18561	Sequence 18561, A
723	27	50.0	432	9	US-10-995-561-738	Sequence 738, Appl	796	27	50.0	658	9	US-10-915-002-220	Sequence 220, Appl
724	27	50.0	433	9	US-10-506-454-1525	Sequence 1525, Ap	797	27	50.0	666	11	US-11-087-099-82103	Sequence 8103, Ap
725	27	50.0	434	9	US-10-506-454-259	Sequence 259, Appl	798	27	50.0	666	11	US-11-188-298-7496	Sequence 7496, Ap
726	27	50.0	434	11	US-11-087-099-2216	Sequence 2216, Ap	799	27	50.0	684	9	US-10-714-781A-55	Sequence 55, Appl
727	27	50.0	441	11	US-11-096-568A-25563	Sequence 25563, A	800	27	50.0	684	9	US-10-714-781A-57	Sequence 57, Appl
728	27	50.0	443	11	US-11-096-568A-7897	Sequence 7897, Ap	801	27	50.0	684	9	US-10-714-781A-61	Sequence 61, Appl
729	27	50.0	444	9	US-10-821-234-1476	Sequence 1476, Ap	802	27	50.0	686	9	US-10-714-781A-59	Sequence 59, Appl
730	27	50.0	444	11	US-11-096-568A-31902	Sequence 31902, A	803	27	50.0	686	9	US-10-821-234-1197	Sequence 1197, Appl
731	27	50.0	445	11	US-11-172-740-464	Sequence 746, Appl	804	27	50.0	691	11	US-11-210-960-6	Sequence 6, Appl1
732	27	50.0	445	11	US-11-172-740-469	Sequence 469, Appl	805	27	50.0	691	11	US-11-188-298-15121	Sequence 15121, A
733	27	50.0	445	11	US-11-172-740-709	Sequence 709, Appl	806	27	50.0	738	9	US-10-467-657-8036	Sequence 8036, Ap
734	27	50.0	445	11	US-11-079-463-9167	Sequence 9167, Appl	807	27	50.0	748	9	US-11-188-298-21202	Sequence 21202, A
735	27	50.0	446	11	US-11-079-463-5366	Sequence 5366, Ap	808	27	50.0	757	11	US-11-188-298-15673	Sequence 15673, A
736	27	50.0	446	11	US-11-172-740-463	Sequence 463, Appl	809	27	50.0	791	9	US-10-467-657-5014	Sequence 5014, Appl
737	27	50.0	447	11	US-11-172-740-466	Sequence 466, Appl	810	27	50.0	797	8	US-10-370-951-121	Sequence 121, Appl
738	27	50.0	447	11	US-11-172-740-712	Sequence 712, Appl	811	27	50.0	797	9	US-10-995-561-802	Sequence 802, Appl
739	27	50.0	447	11	US-11-172-740-712	Sequence 712, Appl	812	27	50.0	797	8	US-11-188-298-17382	Sequence 17382, A
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ALIGNMENTS

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; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SOUTHWOOD, JOHN
; APPLICANT: SIDNEY, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EXS/W-M
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 506
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; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-506

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Best Local Similarity 100.0%; Pred. No. 0.0017;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
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US-10-530-253-13

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; Sequence 3, Application US/11206138
; Publication No. US20060039919A1
; GENERAL INFORMATION:
; APPLICANT: HealthBanks Biotech CO. LTD.
; TITLE OF INVENTION: Fusion protein for inhibiting cervical cancer
; FILE REFERENCE: P7819/0613
; CURRENT APPLICATION NUMBER: US/11/206,138
; CURRENT FILING DATE: 2005-08-18
; NUMBER OF SEQ ID NOS: 14
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US-11-206-138-3

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RESULT 4
US-10-530-253-1
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; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
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;; PRIORITY APPLICATION NUMBER: US 60/415,929
;; PRIORITY FILING DATE: 2002-10-03
;; NUMBER OF SEQ ID NOS: 65
;; SOFTWARE: PatentIn version 3.1
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;; LENGTH: 248
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;; ORGANISM: Human papillomavirus type 16
US-10-530-253-1

Query Match 100.0%; Score 54; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.028;
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RESULT 5
US-10-530-253-3
;; Sequence 3, Application US/10530253
;; Publication No. US20060014926A1
;; GENERAL INFORMATION:
;; APPLICANT: Cassetti, Maria C.
;; APPLICANT: Smith, Larry
;; APPLICANT: Jeffrey K. Pullen
;; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;; FILE REFERENCE: 00630/100M137-US2
;; CURRENT FILING DATE: 2005-04-04
;; PRIORITY FILING DATE: 2003-10-02
;; PRIORITY APPLICATION NUMBER: PCT/US2003/031726
;; PRIOR FILING DATE: 2002-10-03
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US-10-530-253-3

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RESULT 6
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;; Publication No. US20060014926A1
;; GENERAL INFORMATION:
;; APPLICANT: Cassetti, Maria C.
;; APPLICANT: Smith, Larry
;; APPLICANT: Jeffrey K. Pullen
;; APPLICANT: Susan P. McElhinney
;; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;; FILE REFERENCE: 00630/100M137-US2
;; CURRENT FILING DATE: 2005-04-04
;; PRIORITY FILING DATE: 2003-10-02
;; PRIORITY APPLICATION NUMBER: PCT/US2003/031726
;; PRIOR FILING DATE: 2002-10-03
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US-10-530-253-5

Query Match 100.0%; Score 54; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.028;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 7
US-10-530-253-7
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;; GENERAL INFORMATION:
;; APPLICANT: Cassetti, Maria C.
;; APPLICANT: Smith, Larry
;; APPLICANT: Jeffrey K. Pullen
;; APPLICANT: Susan P. McElhinney
;; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;; FILE REFERENCE: 00630/100M137-US2
;; CURRENT FILING DATE: 2005-04-04
;; PRIORITY FILING DATE: 2003-10-02
;; PRIORITY APPLICATION NUMBER: PCT/US2003/031726
;; PRIOR FILING DATE: 2002-10-03
;; PRIOR APPLICATION NUMBER: US 60/415,929
;; NUMBER OF SEQ ID NOS: 65
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 7
;; LENGTH: 248
;; TYPE: PRT
;; ORGANISM: Human papillomavirus type 16
US-10-530-253-7

Query Match 100.0%; Score 54; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.028;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KISEYRHYC 9
DB 169 KISEYRHYC 177

RESULT 8
US-10-530-253-9
;; Sequence 9, Application US/10530253
;; Publication No. US20060014926A1
;; GENERAL INFORMATION:
;; APPLICANT: Cassetti, Maria C.
;; APPLICANT: Smith, Larry
;; APPLICANT: Jeffrey K. Pullen
;; APPLICANT: Susan P. McElhinney
;; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;; FILE REFERENCE: 00630/100M137-US2
;; CURRENT FILING DATE: 2005-04-04
;; PRIORITY FILING DATE: 2003-10-02
;; PRIORITY APPLICATION NUMBER: PCT/US2003/031726
;; PRIOR FILING DATE: 2002-10-03
;; PRIOR APPLICATION NUMBER: US 60/415,929
;; NUMBER OF SEQ ID NOS: 65
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 9
;; LENGTH: 248
;; TYPE: PRT
;; ORGANISM: Human papillomavirus type 16
US-10-530-253-9

Query Match 100.0%; Score 54; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.028;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KISEYRHYC 9
Db 169 KISEYRHYC 177

RESULT 9

US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casseiti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-11

Query Match 100.0%; Score 54; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.028;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KISEYRHYC 9
Db 169 KISEYRHYC 177

RESULT 10

US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
; APPLICANT: PANG, XIOMU
; TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
; FILE REFERENCE: 116620-003
; CURRENT APPLICATION NUMBER: US/11/192,923A
; PRIOR FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: CN 03115272.4
; PRIOR FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: CN 03115273.2
; PRIOR FILING DATE: 2003-01-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-11-192-923A-2

Query Match 100.0%; Score 54; DB 11; Length 256;
Best Local Similarity 100.0%; Pred. No. 0.029;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KISEYRHYC 9
Db 177 KISEYRHYC 165

RESULT 11

US-10-530-061-505
; Sequence 505, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 505
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-505

Query Match 92.6%; Score 50; DB 9; Length 10;
Best Local Similarity 88.9%; Pred. No. 0.0086;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KISEYRHYC 9
Db 1 KISEYRHYC 9

RESULT 12

US-10-530-061-40
; Sequence 40, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 40
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-40

Query Match 83.3%; Score 45; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.065;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KISEYRHY 8
Db 3 KISEYRHY 10

RESULT 13


```
US-10-530-061-475
; Sequence 475, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SETH, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 475
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-475

Query Match      83.3%; Score 45; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.065;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KISEYRHY 8
DB 1 KISEYRHY 8

RESULT 14
US-10-530-061-554
; Sequence 554, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SETH, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 554
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-554

Query Match      83.3%; Score 45; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.065;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KISEYRHY 8
DB 1 KISEYRHY 8

RESULT 15
US-10-530-061-599
; Sequence 599, Application US/10530061
; Publication No. US20060079453A1
```

```
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SETH, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 599
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-599

Query Match      83.3%; Score 45; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.065;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KISEYRHY 8
DB 1 KISEYRHY 8

RESULT 16
US-10-530-061-775
; Sequence 775, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SETH, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 775
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-775

Query Match      83.3%; Score 45; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.065;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KISEYRHY 8
DB 3 KISEYRHY 10

RESULT 17
US-10-530-253-22
; Sequence 22, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
```

```

; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 22
; LENGTH: 148
; TYPE: PRT
; ORGANISM: Human papillomavirus type 52
US-10-530-253-22
```

```

Query Match      83.3%; Score 45; DB 9; Length 148;
Best Local Similarity 100.0%; Pred. No. 0.67;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 KISEYRHY 8
      |||||
Db      72 KISEYRHY 79
```

```

RESULT 18
US-10-530-253-17
; Sequence 17, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 17
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 33
US-10-530-253-17
```

```

Query Match      83.3%; Score 45; DB 9; Length 149;
Best Local Similarity 100.0%; Pred. No. 0.67;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 KISEYRHY 8
      |||||
Db      72 KISEYRHY 79
```

```

RESULT 19
US-10-530-253-24
; Sequence 24, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
```

```

; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 24
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 58
US-10-530-253-24
```

```

Query Match      83.3%; Score 45; DB 9; Length 149;
Best Local Similarity 100.0%; Pred. No. 0.67;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 KISEYRHY 8
      |||||
Db      72 KISEYRHY 79
```

```

RESULT 20
US-10-530-061-598
; Sequence 598, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 598
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-598
```

```

Query Match      81.5%; Score 44; DB 9; Length 10;
Best Local Similarity 87.5%; Pred. No. 0.097;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 KISEYRHY 8
      |||||
Db      1 KYSEYRHY 8
```

```

RESULT 21
US-10-530-061-124
; Sequence 124, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
```

;; PRIOR APPLICATION NUMBER: 60/417,269
;; PRIOR FILING DATE: 2002-10-08
;; NUMBER OF SEQ ID NOS: 2503
;; SOFTWARE: Patentin version 3.3
;; SEQ ID NO 124
;; LENGTH: 10
;; TYPE: PRT
;; ORGANISM: Human papillomavirus
US-10-530-061-124

Query Match 75.9%; Score 41; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.32;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 EYRHYC 9
|||
Db 1 EYRHYC 6

RESULT 22
US-10-530-061-553
;; Sequence 553, Application US/10530061
;; Publication No. US20060079453A1
;; GENERAL INFORMATION:
;; APPLICANT: SIDNEY, JOHN
;; APPLICANT: SOUTHWOOD, SCOTT
;; APPLICANT: SETTE, ALESSANDRO
;; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;; FILE REFERENCE: 2060.033US02/EKS/M-M
;; CURRENT APPLICATION NUMBER: US/10/530,061
;; PRIOR FILING DATE: 2005-04-04
;; PRIOR APPLICATION NUMBER: PCT/US03/31308
;; PRIOR FILING DATE: 2003-10-03
;; PRIOR APPLICATION NUMBER: 60/416,207
;; PRIOR FILING DATE: 2002-10-03
;; PRIOR APPLICATION NUMBER: 60/417,269
;; PRIOR FILING DATE: 2002-10-08
;; NUMBER OF SEQ ID NOS: 2503
;; SOFTWARE: Patentin version 3.3
;; SEQ ID NO 553
;; LENGTH: 10
;; TYPE: PRT
;; ORGANISM: Human papillomavirus
US-10-530-061-553

Query Match 75.9%; Score 41; DB 9; Length 10;
Best Local Similarity 87.5%; Pred. No. 0.32;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KISEYRHY 8
|||
Db 1 KISEYRHY 8

RESULT 23
US-10-530-061-850
;; Sequence 850, Application US/10530061
;; Publication No. US20060079453A1
;; GENERAL INFORMATION:
;; APPLICANT: SIDNEY, JOHN
;; APPLICANT: SOUTHWOOD, SCOTT
;; APPLICANT: SETTE, ALESSANDRO
;; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;; FILE REFERENCE: 2060.033US02/EKS/M-M
;; CURRENT APPLICATION NUMBER: US/10/530,061
;; PRIOR FILING DATE: 2005-04-04
;; PRIOR APPLICATION NUMBER: PCT/US03/31308
;; PRIOR FILING DATE: 2003-10-03
;; PRIOR APPLICATION NUMBER: 60/416,207
;; PRIOR FILING DATE: 2002-10-03
;; PRIOR APPLICATION NUMBER: 60/417,269
;; PRIOR FILING DATE: 2002-10-08
;; NUMBER OF SEQ ID NOS: 2503

;; SOFTWARE: Patentin version 3.3
;; SEQ ID NO 850
;; LENGTH: 10
;; TYPE: PRT
;; ORGANISM: Human papillomavirus
US-10-530-061-850

Query Match 75.9%; Score 41; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.32;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 EYRHYC 9
|||
Db 1 EYRHYC 6

RESULT 24
US-10-530-061-41
;; Sequence 41, Application US/10530061
;; Publication No. US20060079453A1
;; GENERAL INFORMATION:
;; APPLICANT: SIDNEY, JOHN
;; APPLICANT: SOUTHWOOD, SCOTT
;; APPLICANT: SETTE, ALESSANDRO
;; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;; FILE REFERENCE: 2060.033US02/EKS/M-M
;; CURRENT APPLICATION NUMBER: US/10/530,061
;; PRIOR FILING DATE: 2005-04-04
;; PRIOR APPLICATION NUMBER: PCT/US03/31308
;; PRIOR FILING DATE: 2003-10-03
;; PRIOR APPLICATION NUMBER: 60/416,207
;; PRIOR FILING DATE: 2002-10-03
;; PRIOR APPLICATION NUMBER: 60/417,269
;; PRIOR FILING DATE: 2002-10-08
;; NUMBER OF SEQ ID NOS: 2503
;; SOFTWARE: Patentin version 3.3
;; SEQ ID NO 41
;; LENGTH: 9
;; TYPE: PRT
;; ORGANISM: Human papillomavirus
US-10-530-061-41

Query Match 74.1%; Score 40; DB 9; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 ISEYRHY 8
|||
Db 1 ISEYRHY 7

RESULT 25
US-10-530-061-122
;; Sequence 122, Application US/10530061
;; Publication No. US20060079453A1
;; GENERAL INFORMATION:
;; APPLICANT: SIDNEY, JOHN
;; APPLICANT: SOUTHWOOD, SCOTT
;; APPLICANT: SETTE, ALESSANDRO
;; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;; FILE REFERENCE: 2060.033US02/EKS/M-M
;; CURRENT APPLICATION NUMBER: US/10/530,061
;; PRIOR FILING DATE: 2005-04-04
;; PRIOR APPLICATION NUMBER: PCT/US03/31308
;; PRIOR FILING DATE: 2003-10-03
;; PRIOR APPLICATION NUMBER: 60/416,207
;; PRIOR FILING DATE: 2002-10-03
;; PRIOR APPLICATION NUMBER: 60/417,269
;; PRIOR FILING DATE: 2002-10-08
;; NUMBER OF SEQ ID NOS: 2503
;; SOFTWARE: Patentin version 3.3
;; SEQ ID NO 122
;; LENGTH: 9

```

; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-122
Query Match          74.1%; Score 40; DB 9; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 ISEYRHY 8
   |||||
Db 1 ISEYRHY 7

RESULT 26
US-10-530-061-776
; Sequence 776, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 776
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-776
Query Match          74.1%; Score 40; DB 9; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 ISEYRHY 8
   |||||
Db 1 ISEYRHY 7

RESULT 27
US-10-530-061-54
; Sequence 54, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 54
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-54
Query Match          74.1%; Score 40; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.49;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 ISEYRHY 8
   |||||
Db 4 ISEYRHY 10

RESULT 28
US-11-144-947-640
; Sequence 640, Application US/11144947
; Publication No. US20060084082A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: 186 Human Secreted proteins
; FILE REFERENCE: P2002P2C2
; CURRENT APPLICATION NUMBER: US/11/144,947
; CURRENT FILING DATE: 2005-06-06
; PRIOR APPLICATION NUMBER: 09/882,171
; PRIOR FILING DATE: 2005-06-03
; PRIOR APPLICATION NUMBER: 09/809,391
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/190,068
; PRIOR FILING DATE: 2000-03-17
; PRIOR APPLICATION NUMBER: 10/164,861
; PRIOR FILING DATE: 2002-06-10
; PRIOR APPLICATION NUMBER: 09/149,476
; PRIOR FILING DATE: 1998-09-08
; PRIOR APPLICATION NUMBER: PCT/US98/04493
; PRIOR FILING DATE: 1998-03-06
; PRIOR APPLICATION NUMBER: 60/040,162
; PRIOR FILING DATE: 1997-03-07
; PRIOR APPLICATION NUMBER: 60/040,333
; PRIOR FILING DATE: 1997-03-07
; PRIOR APPLICATION NUMBER: 60/038,621
; PRIOR FILING DATE: 1997-03-07
; PRIOR APPLICATION NUMBER: 60/040,626
; PRIOR FILING DATE: 1997-03-07
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 761
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 640
; LENGTH: 28
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-144-947-640
Query Match          70.4%; Score 38; DB 11; Length 28;
Best Local Similarity 75.0%; Pred. No. 2.7;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ISEYRHYC 9
   ||: |||
Db 4 ISQLRHYC 11

RESULT 29
US-10-131-826A-550
; Sequence 550, Application US/10131826A
; Publication No. US20050245730A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: Deforge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
US-10-131-826A-550
```

```
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330R1C128
CURRENT APPLICATION NUMBER: US/10/131,826A
CURRENT FILING DATE: 2002-04-24
PRIOR APPLICATION NUMBER: 60/049911
PRIOR FILING DATE: 1997-06-18
PRIOR APPLICATION NUMBER: 60/056974
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 60/059113
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059115
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059117
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059122
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059184
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059263
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/059352
PRIOR FILING DATE: 1997-09-19
PRIOR APPLICATION NUMBER: 60/059588
PRIOR FILING DATE: 1997-09-19
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 550
LENGTH: 198
TYPE: PRT
ORGANISM: Homo Sapien
US-10-131-826A-550
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```
Query Match      70.4%; Score 38; DB 9; Length 198;
Best Local Similarity 75.0%; Pred. No. 15;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 ISEYRHYC 9
      ||: |||
Db      64 ISQLRHYC 71

RESULT 30
US-10-973-115B-550
Sequence 550, Application US/10973115B
Publication No. US20060040351A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Desnoyers, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Geriltsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODIN
TITLE OF INVENTION: SAME
```

```
FILE REFERENCE: 39870-3330R1C300C1
CURRENT APPLICATION NUMBER: US/10/973,115B
CURRENT FILING DATE: 2004-10-22
PRIOR APPLICATION NUMBER: US 10/145,747
PRIOR FILING DATE: 2002-05-14
PRIOR APPLICATION NUMBER: US 10/028,072
PRIOR FILING DATE: 2001-12-19
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: 2000-12-01
PRIOR APPLICATION NUMBER: US 09/581,742
PRIOR FILING DATE: 2000-06-16
PRIOR APPLICATION NUMBER: PCT/US00/05746
PRIOR FILING DATE: 2000-03-02
PRIOR APPLICATION NUMBER: US 60/135,736
PRIOR FILING DATE: 1999-05-25
PRIOR APPLICATION NUMBER: US 60/123,090
PRIOR FILING DATE: 1999-03-05
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 550
LENGTH: 198
TYPE: PRT
ORGANISM: Homo sapiens
US-10-973-115B-550

Query Match      70.4%; Score 38; DB 9; Length 198;
Best Local Similarity 75.0%; Pred. No. 15;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 ISEYRHYC 9
      ||: |||
Db      64 ISQLRHYC 71
```

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RESULT 31
US-10-218-784-226
Sequence 226, Application US/10218784
Publication No. US20060074223A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Desnoyers, Luc
APPLICANT: Geriltsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Smith, Victoria
APPLICANT: Stephan, Jean-Philippe F.
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William I.
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3530P1C18
CURRENT APPLICATION NUMBER: US/10/218,784
CURRENT FILING DATE: 2002-08-12
PRIOR APPLICATION NUMBER: 10/119,480
PRIOR FILING DATE: 2002-04-09
PRIOR APPLICATION NUMBER: 60/059113
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/062287
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/063549
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/064103
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/069873
PRIOR FILING DATE: 1997-12-17
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079656
PRIOR FILING DATE: 1998-03-26
PRIOR APPLICATION NUMBER: 60/079728
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PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/081819
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081955
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/082804
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/084441
PRIOR FILING DATE: 1998-05-06
PRIOR APPLICATION NUMBER: 60/085323
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085579
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/086392
PRIOR FILING DATE: 1998-05-22
PRIOR APPLICATION NUMBER: 60/089532
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089538
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089905
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/090472
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090557
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090691
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090695
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/095302
PRIOR FILING DATE: 1998-08-04
PRIOR APPLICATION NUMBER: 60/095318
PRIOR FILING DATE: 1998-08-04
PRIOR APPLICATION NUMBER: 60/095916
PRIOR FILING DATE: 1998-08-10
PRIOR APPLICATION NUMBER: 60/096146
PRIOR FILING DATE: 1998-08-11
PRIOR APPLICATION NUMBER: 60/096791
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: 60/097986
PRIOR FILING DATE: 1998-08-26
PRIOR APPLICATION NUMBER: 60/098544
PRIOR FILING DATE: 1998-08-31
PRIOR APPLICATION NUMBER: 60/099596
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 60/099598
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 60/099803
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099811
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099812
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099816
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/100038
PRIOR FILING DATE: 1998-09-11
PRIOR APPLICATION NUMBER: 60/100385
PRIOR FILING DATE: 1998-09-15
PRIOR APPLICATION NUMBER: 60/100390
PRIOR FILING DATE: 1998-09-15
PRIOR APPLICATION NUMBER: 60/100627
PRIOR FILING DATE: 1998-09-16
PRIOR APPLICATION NUMBER: 60/100848
PRIOR FILING DATE: 1998-09-18
PRIOR APPLICATION NUMBER: 60/100919
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/101477
PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101338
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/101741
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/101786
PRIOR FILING DATE: 1998-09-25
PRIOR APPLICATION NUMBER: 60/101916
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/101922
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/106178
PRIOR FILING DATE: 1998-10-28
PRIOR APPLICATION NUMBER: 60/106248
PRIOR FILING DATE: 1998-10-29
PRIOR APPLICATION NUMBER: 60/106464
PRIOR FILING DATE: 1998-10-30
PRIOR APPLICATION NUMBER: 60/106905
PRIOR FILING DATE: 1998-11-03
PRIOR APPLICATION NUMBER: 60/108787
PRIOR FILING DATE: 1998-11-17
PRIOR APPLICATION NUMBER: 60/108801
PRIOR FILING DATE: 1998-11-17
PRIOR APPLICATION NUMBER: 60/108849
PRIOR FILING DATE: 1998-11-18
PRIOR APPLICATION NUMBER: 60/112422
PRIOR FILING DATE: 1998-12-15
PRIOR APPLICATION NUMBER: 60/113296
PRIOR FILING DATE: 1998-12-22
PRIOR APPLICATION NUMBER: 60/113605
PRIOR FILING DATE: 1998-12-23
PRIOR APPLICATION NUMBER: 60/113621
PRIOR FILING DATE: 1998-12-23
PRIOR APPLICATION NUMBER: 60/115558
PRIOR FILING DATE: 1999-01-12
PRIOR APPLICATION NUMBER: 60/115565
PRIOR FILING DATE: 1999-01-12
PRIOR APPLICATION NUMBER: 60/115733
PRIOR FILING DATE: 1999-01-12
PRIOR APPLICATION NUMBER: 60/119549
PRIOR FILING DATE: 1999-02-10
PRIOR APPLICATION NUMBER: 60/123618
PRIOR FILING DATE: 1999-03-10
PRIOR APPLICATION NUMBER: 60/125259
PRIOR FILING DATE: 1999-03-19
PRIOR APPLICATION NUMBER: 60/125775
PRIOR FILING DATE: 1999-03-23
PRIOR APPLICATION NUMBER: 60/126773
PRIOR FILING DATE: 1999-03-29
PRIOR APPLICATION NUMBER: 60/127887
PRIOR FILING DATE: 1999-04-05
PRIOR APPLICATION NUMBER: 60/130232
PRIOR FILING DATE: 1999-04-21
PRIOR APPLICATION NUMBER: 60/131022
PRIOR FILING DATE: 1999-04-26
PRIOR APPLICATION NUMBER: 60/131270
PRIOR FILING DATE: 1999-04-27
PRIOR APPLICATION NUMBER: 60/131291
PRIOR FILING DATE: 1999-04-27
PRIOR APPLICATION NUMBER: 60/131445
PRIOR FILING DATE: 1999-04-28
PRIOR APPLICATION NUMBER: 60/134287
PRIOR FILING DATE: 1999-05-14
PRIOR APPLICATION NUMBER: 60/140650
PRIOR FILING DATE: 1999-06-22
PRIOR APPLICATION NUMBER: 60/140723
PRIOR FILING DATE: 1999-06-22
PRIOR APPLICATION NUMBER: 60/141037
PRIOR FILING DATE: 1999-06-23
PRIOR APPLICATION NUMBER: 60/144758
PRIOR FILING DATE: 1999-07-20
PRIOR APPLICATION NUMBER: 60/145698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: 60/146222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: 60/146963

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; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: 60/149320
; PRIOR FILING DATE: 1999-08-17
; PRIOR APPLICATION NUMBER: 60/149638
; PRIOR FILING DATE: 1999-08-17
; PRIOR APPLICATION NUMBER: 60/151733
; PRIOR FILING DATE: 1999-08-31
; PRIOR APPLICATION NUMBER: 60/164418
; PRIOR FILING DATE: 1999-11-09
; PRIOR APPLICATION NUMBER: 60/166361
; PRIOR FILING DATE: 1999-11-16
; PRIOR APPLICATION NUMBER: 60/169445
; PRIOR FILING DATE: 1999-12-07
; PRIOR APPLICATION NUMBER: 60/169495
; PRIOR FILING DATE: 1999-12-07
; PRIOR APPLICATION NUMBER: 60/169835

Query Match      70.4%; Score 38; DB 9; Length 198;
Best Local Similarity 75.0%; Pred. No. 15;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 ISEYRHYC 9
       ||: |||
Db      64 ISQLRHYC 71

RESULT 32
US-10-219-061-226
; Sequence 226, Application US/10219061
; Publication No. US20060074224A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Desnoyers, Luc
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe F.
; APPLICANT: Watanabe, Colin L.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3530PIC16
; CURRENT APPLICATION NUMBER: US/10/219,061
; CURRENT FILING DATE: 2002-08-12
; PRIOR APPLICATION NUMBER: 10/119,480
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/062287
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063549
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/064103
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/069873
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079294
; PRIOR FILING DATE: 1998-03-25
; PRIOR APPLICATION NUMBER: 60/079656
; PRIOR FILING DATE: 1998-03-26
; PRIOR APPLICATION NUMBER: 60/079728
; PRIOR FILING DATE: 1998-03-27
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 246
; SEQ ID NO 226
; LENGTH: 198
; TYPE: PRT
; ORGANISM: Homo Sapien
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```

US-10-219-061-226

Query Match      70.4%; Score 38; DB 9; Length 198;
Best Local Similarity 75.0%; Pred. No. 15;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 ISEYRHYC 9
       ||: |||
Db      64 ISQLRHYC 71

RESULT 33
US-10-219-062-226
; Sequence 226, Application US/10219062
; Publication No. US20060074220A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Desnoyers, Luc
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe F.
; APPLICANT: Watanabe, Colin L.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3530PIC17
; CURRENT APPLICATION NUMBER: US/10/219,062
; CURRENT FILING DATE: 2002-08-12
; PRIOR APPLICATION NUMBER: 10/119,480
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/062287
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063549
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/064103
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/069873
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079294
; PRIOR FILING DATE: 1998-03-25
; PRIOR APPLICATION NUMBER: 60/079656
; PRIOR FILING DATE: 1998-03-26
; PRIOR APPLICATION NUMBER: 60/079728
; PRIOR FILING DATE: 1998-03-27
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 246
; SEQ ID NO 226
; LENGTH: 198
; TYPE: PRT
; ORGANISM: Homo Sapien

US-10-219-062-226

Query Match      70.4%; Score 38; DB 9; Length 198;
Best Local Similarity 75.0%; Pred. No. 15;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 ISEYRHYC 9
       ||: |||
Db      64 ISQLRHYC 71

RESULT 34
US-10-219-064-226
; Sequence 226, Application US/10219064
; Publication No. US20060074221A1
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/ GENERAL INFORMATION:
/ APPLICANT: Baker, Kevin P.
/ APPLICANT: Desnoyers, Luc
/ APPLICANT: Gerritsen, Mary
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Goddard, Paul J.
/ APPLICANT: Grimaldi, J. Christopher
/ APPLICANT: Grimaldi, Justin L.
/ APPLICANT: Guiney, Victoria
/ APPLICANT: Smith, Victorja
/ APPLICANT: Stephan, Jean-Philippe F.
/ APPLICANT: Watanabe, Colin L.
/ APPLICANT: Wood, William I.
/ TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
/ TITLE OF INVENTION: ACIDS ENCODING THE SAME
/ FILE REFERENCE: P3530P1C44
/ CURRENT FILING DATE: 2002-08-13
/ PRIOR APPLICATION NUMBER: 10/119,480
/ PRIOR FILING DATE: 2002-04-09
/ PRIOR APPLICATION NUMBER: 60/059113
/ PRIOR FILING DATE: 1997-09-17
/ PRIOR APPLICATION NUMBER: 60/062287
/ PRIOR FILING DATE: 1997-10-17
/ PRIOR APPLICATION NUMBER: 60/078910
/ PRIOR FILING DATE: 1998-03-20
/ PRIOR APPLICATION NUMBER: 60/079294
/ PRIOR FILING DATE: 1998-03-25
/ PRIOR APPLICATION NUMBER: 60/079656
/ PRIOR FILING DATE: 1998-03-26
/ PRIOR APPLICATION NUMBER: 60/079728
/ PRIOR FILING DATE: 1998-03-27
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 246
/ SEQ ID NO 226
/ LENGTH: 198
/ TYPE: PRT
/ ORGANISM: Homo Sapien
/ US-10-219-064-226

Query Match          70.4%; Score 38; DB 9; Length 198;
Best Local Similarity 75.0%; Pred. No. 15;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy      2 ISEYRHYC 9
Db      64 ISQLRHYC 71

RESULT 35
/ Sequence 226, Application US/10233134
/ Publication No. US20060073476A1
/ GENERAL INFORMATION:
/ APPLICANT: Baker, Kevin P.
/ APPLICANT: Desnoyers, Luc
/ APPLICANT: Gerritsen, Mary
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Goddard, Paul J.
/ APPLICANT: Grimaldi, J. Christopher
/ APPLICANT: Grimaldi, Justin L.
/ APPLICANT: Guiney, Victoria
/ APPLICANT: Smith, Victorja
/ APPLICANT: Stephan, Jean-Philippe F.
/ APPLICANT: Watanabe, Colin L.
/ APPLICANT: Wood, William I.
/ TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
/ TITLE OF INVENTION: ACIDS ENCODING THE SAME
/ FILE REFERENCE: P3530P1C113
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/ CURRENT APPLICATION NUMBER: US/10/233,134
/ CURRENT FILING DATE: 2002-08-29
/ PRIOR APPLICATION NUMBER: 10/119,480
/ PRIOR FILING DATE: 2002-04-09
/ PRIOR APPLICATION NUMBER: 60/059113
/ PRIOR FILING DATE: 1997-09-17
/ PRIOR APPLICATION NUMBER: 60/062287
/ PRIOR FILING DATE: 1997-10-17
/ PRIOR APPLICATION NUMBER: 60/063549
/ PRIOR FILING DATE: 1997-10-28
/ PRIOR APPLICATION NUMBER: 60/064103
/ PRIOR FILING DATE: 1997-10-31
/ PRIOR APPLICATION NUMBER: 60/069873
/ PRIOR FILING DATE: 1997-12-17
/ PRIOR APPLICATION NUMBER: 60/078910
/ PRIOR FILING DATE: 1998-03-20
/ PRIOR APPLICATION NUMBER: 60/079294
/ PRIOR FILING DATE: 1998-03-25
/ PRIOR APPLICATION NUMBER: 60/079656
/ PRIOR FILING DATE: 1998-03-26
/ PRIOR APPLICATION NUMBER: 60/079728
/ PRIOR FILING DATE: 1998-03-27
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 246
/ SEQ ID NO 226
/ LENGTH: 198
/ TYPE: PRT
/ ORGANISM: Homo Sapien
/ US-10-233-134-226

Query Match          70.4%; Score 38; DB 9; Length 198;
Best Local Similarity 75.0%; Pred. No. 15;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy      2 ISEYRHYC 9
Db      64 ISQLRHYC 71

RESULT 36
/ Sequence 550, Application US/10137873A
/ Publication No. US20060084138A1
/ GENERAL INFORMATION:
/ APPLICANT: Baker, Kevin P.
/ APPLICANT: Beresini, Maureen
/ APPLICANT: DeForge, Laura
/ APPLICANT: Desnoyers, Luc
/ APPLICANT: Filvaroff, Ellen
/ APPLICANT: Gao, Wei-Qiang
/ APPLICANT: Gerritsen, Mary E.
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Goddard, Paul J.
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Guiney, Austin L.
/ APPLICANT: Sherwood, Steven
/ APPLICANT: Smith, Victorja
/ APPLICANT: Stewart, Timothy A.
/ APPLICANT: Tumas, Daniel
/ APPLICANT: Watanabe, Colin K
/ APPLICANT: Wood, William
/ APPLICANT: Zhang, Zemin
/ TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
/ TITLE OF INVENTION: ACIDS ENCODING THE SAME
/ FILE REFERENCE: P3330R1C149
/ CURRENT APPLICATION NUMBER: US/10/137,873A
/ CURRENT FILING DATE: 2002-04-23
/ PRIOR APPLICATION NUMBER: 60/049911
/ PRIOR FILING DATE: 1997-06-18
/ PRIOR APPLICATION NUMBER: 60/056974
/ PRIOR FILING DATE: 1997-08-26
/ PRIOR APPLICATION NUMBER: 60/059113
/ PRIOR FILING DATE: 1997-09-17
/ PRIOR APPLICATION NUMBER: 60/059115
```



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; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; PRIOR APPLICATION NUMBER: 60/059588
; PRIOR FILING DATE: 1997-09-19
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 550
; LENGTH: 198
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-137-873A-550
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Query Match          70.4%; Score 38; DB 9; Length 198;
Best Local Similarity 75.0%; Pred. No. 15;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
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QY      2 ISEYRHYC 9
        ||:||||
Db      64 ISQLRHYC 71
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RESULT 37
US-10-152-370-550
; Sequence 550, Application US/10152370
; Publication No. US20060084139A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Bergsini, Maureen
; APPLICANT: Deforge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C407
; CURRENT APPLICATION NUMBER: US/10/152,370
; PRIOR FILING DATE: 2002-05-21
; Remaining Prior Application removed - See File Wrapper or PALM
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 550
; LENGTH: 198
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-152-370-550
```

```

Query Match          70.4%; Score 38; DB 9; Length 198;
Best Local Similarity 75.0%; Pred. No. 15;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
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```
QY      2 ISEYRHYC 9
        ||:||||
Db      64 ISQLRHYC 71
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RESULT 38
US-11-290-153-550
; Sequence 550, Application US/11290153
; Publication No. US20060073568A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Bergsini, Maureen
; APPLICANT: Deforge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C321
; CURRENT APPLICATION NUMBER: US/11/290,153
; PRIOR FILING DATE: 2005-11-30
; PRIOR APPLICATION NUMBER: US/10/146,728
; PRIOR FILING DATE: 2002-05-15
; PRIOR APPLICATION NUMBER: 60/049911
; PRIOR FILING DATE: 1997-06-18
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 550
; LENGTH: 198
; TYPE: PRT
; ORGANISM: Homo Sapien
US-11-290-153-550
```

```

Query Match          70.4%; Score 38; DB 11; Length 198;
Best Local Similarity 75.0%; Pred. No. 15;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
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```
QY      2 ISEYRHYC 9
        ||:||||
Db      64 ISQLRHYC 71
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RESULT 39
US-10-530-061-71
; Sequence 71, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
```

```

; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 71
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-71

Query Match      68.5%; Score 37; DB 9; Length 9;
Best Local Similarity 85.7%; Pred. No. 1.9e+05;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      2 ISEYRHY 8
       ||:|||||
Db      1 ITEYRHY 7

RESULT 40
US-10-530-061-72
; Sequence 72, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 72
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-72

Query Match      68.5%; Score 37; DB 9; Length 9;
Best Local Similarity 85.7%; Pred. No. 1.9e+05;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      2 ISEYRHY 8
       ||:|||||
Db      1 ISDYRHY 7

RESULT 41
US-10-530-061-73
; Sequence 73, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
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; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 73
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-73

Query Match      68.5%; Score 37; DB 9; Length 9;
Best Local Similarity 85.7%; Pred. No. 1.9e+05;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      2 ISEYRHY 8
       ||:|||||
Db      1 ITEYRHY 7

RESULT 42
US-10-530-061-74
; Sequence 74, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 74
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-74

Query Match      68.5%; Score 37; DB 9; Length 9;
Best Local Similarity 85.7%; Pred. No. 1.9e+05;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      2 ISEYRHY 8
       ||:|||||
Db      1 ISDYRHY 7

RESULT 43
US-10-530-061-121
; Sequence 121, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
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; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 121
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-121

Query Match
Best Local Similarity 68.5%; Score 37; DB 9; Length 9;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 ISEYRHY 8
DB 1 ISDYRHY 7

RESULT 44
US-10-530-061-123
; Sequence 123, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SOUTHWOOD, JOHN
; APPLICANT: SIDNEY, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-W
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 123
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-123

Query Match
Best Local Similarity 68.5%; Score 37; DB 9; Length 9;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 ISEYRHY 8
DB 1 ISDYRHY 7

RESULT 45
US-10-519-122-78
; Sequence 78, Application US/10519122
; Publication No. US20060058252A1
; GENERAL INFORMATION:
; APPLICANT: Clawson, Gary A.
; APPLICANT: Pan, Wei-Hua
; APPLICANT: Thiboutot, Diane
; APPLICANT: Christensen, Neil
; TITLE OF INVENTION: METHODS AND MATERIALS FOR TREATING HUMAN
; FILE REFERENCE: 14017-008US1
; CURRENT APPLICATION NUMBER: US/10/519,122
; PRIOR FILING DATE: 2004-12-22
; PRIOR APPLICATION NUMBER: PCT/US03/20340
; PRIOR FILING DATE: 2003-06-26
; PRIOR APPLICATION NUMBER: US 60/449,066
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; PRIOR FILING DATE: 2003-02-21
; PRIOR APPLICATION NUMBER: US 60/417,997
; PRIOR FILING DATE: 2002-10-14
; PRIOR APPLICATION NUMBER: US 60/391,795
; PRIOR FILING DATE: 2002-06-26
; NUMBER OF SEQ ID NOS: 84
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 78
; LENGTH: 17
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetically generated polypeptide
US-10-519-122-78

Query Match
Best Local Similarity 64.8%; Score 35; DB 9; Length 17;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 KISEYRHY 8
DB 6 KINQYRHF 13

RESULT 46
US-11-256-548-11
; Sequence 11, Application US/11256548
; Publication No. US20060051351A1
; GENERAL INFORMATION:
; APPLICANT: Godowski, Paul J., Mark, Melanie Rose, Zhang, Dong Xiao
; TITLE OF INVENTION: ErbB Receptor-Specific Neuregulin Related
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Genentech, Inc.
; STREET: 1 DNA Way
; CITY: South San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94080
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Winpatin (Genentech)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/11/256,548
; FILING DATE: 21-Oct-2005
; CLASSIFICATION: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Conley, Deirdre J.
; REGISTRATION NUMBER: 36,487
; REFERENCE/DOCKET NUMBER: P1084R1-2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650/225-2066
; TELEFAX: 650/952-9881
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 45 amino acids
; TYPE: Amino Acid
; TOPOLOGY: Linear
; FEATURE:
; NAME/KEY: hBTC.e1g
; LOCATION: 1-45
; IDENTIFICATION METHOD:
; OTHER INFORMATION:
; SEQUENCE DESCRIPTION: SEQ ID NO: 11:
US-11-256-548-11

Query Match
Best Local Similarity 64.8%; Score 35; DB 11; Length 45;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
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QY 4 EYRHYC 9
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Db 8 QYKHYC 13

RESULT 47

US-11-172-610-10
; Sequence 10, Application US/11172610
; Publication No. US20060014690A1
; GENERAL INFORMATION:
; APPLICANT: Bishop, Jeffrey S.
; APPLICANT: Loomis, A. Karina
; APPLICANT: Monticello, Daniel J.
; APPLICANT: Plenkos, Philip T.
; TITLE OF INVENTION: Epidermal Growth Factor Receptor
; TITLE OF INVENTION: Antagonists and Methods of Use
; FILE REFERENCE: 3530.1002 US2
; CURRENT APPLICATION NUMBER: US/11/172,610
; PRIOR FILING DATE: 2005-06-30
; PRIOR APPLICATION NUMBER: 60/643,082
; PRIOR FILING DATE: 2005-01-11
; PRIOR APPLICATION NUMBER: 60/584,471
; PRIOR FILING DATE: 2004-06-30
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 123
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-11-172-610-10

Query Match 64.8%; Score 35; DB 11; Length 123;
Best Local Similarity 66.7%; Pred. No. 32;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 4 EYRHYC 9
:|:|:|
Db 72 QYKHYC 77

RESULT 48

US-10-530-253-18
; Sequence 18, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casaccia, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 35
US-10-530-253-18

Query Match 64.8%; Score 35; DB 9; Length 149;
Best Local Similarity 87.5%; Pred. No. 38;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KISEYRHY 8
|||

Db 72 KISEYRMY 79

RESULT 49

US-10-530-061-128
; Sequence 128, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 128
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-128

Query Match 63.0%; Score 34; DB 9; Length 10;
Best Local Similarity 83.3%; Pred. No. 5.4;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 EYRHYC 9
|||
Db 1 EYDHYC 6

RESULT 50

US-10-530-061-853
; Sequence 853, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 853
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-853

Query Match 63.0%; Score 34; DB 9; Length 10;
Best Local Similarity 83.3%; Pred. No. 5.4;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 EYRHYC 9
|||
Db 1 EYDHYC 6

Tue May 9 09:28:06 2006

us-08-170-344-11.rapbn

Page 23

Search completed: May 5, 2006, 08:08:00
Job time : 10.5 secs

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OM protein - protein search, using SW model

Run on: May 5, 2006, 01:33:35 ; Search time 18.2 Seconds
(without alignments)
40.884 Million cell updates/sec

Title: US-08-170-344-12
Perfect score: 52
Sequence: 1 PLCDLIRC 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/prodata/1/1aa/5-COMB.pep:*
2: /cgn2_6/prodata/1/1aa/6-COMB.pep:*
3: /cgn2_6/prodata/1/1aa/H-COMB.pep:*
4: /cgn2_6/prodata/1/1aa/PCITUS-COMB.pep:*
5: /cgn2_6/prodata/1/1aa/RE-COMB.pep:*
6: /cgn2_6/prodata/1/1aa/Backfill1est.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	52	100.0	20	1	US-08-934-915-45
2	52	100.0	151	2	US-09-701-080C-18
3	52	100.0	158	2	US-09-980-523A-2
4	52	100.0	162	1	US-08-316-239B-3
5	52	100.0	162	1	US-08-316-239B-4
6	52	100.0	172	2	US-08-860-165-12
7	52	100.0	172	2	US-09-359-382-12
8	52	100.0	243	2	US-09-462-993-1
9	52	100.0	266	2	US-08-860-165-10
10	52	100.0	266	2	US-09-359-382-10
11	52	100.0	266	2	US-09-367-309A-1
12	52	100.0	272	2	US-09-485-885-10
13	52	100.0	272	2	US-09-485-885-10
14	52	100.0	371	2	US-09-485-885-6
15	52	100.0	390	2	US-09-485-885-14
16	47	90.4	20	1	US-08-934-915-164
17	38	73.1	29	2	US-09-980-523A-8
18	36	69.2	172	2	US-09-248-796A-20508
19	36	69.2	343	2	US-09-902-540-12017
20	35	67.3	348	2	US-09-489-039A-13746
21	35	67.3	407	2	US-10-104-047-3074
22	35	67.3	687	2	US-09-252-991A-31650
23	34	65.4	10	2	US-09-574-749B-43
24	34	65.4	104	2	US-09-270-767-33183
25	34	65.4	109	2	US-09-270-767-48400
26	34	65.4	109	2	US-09-270-767-34129
27	34	65.4	109	2	US-09-270-767-49346

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30	34	65.4	166	2	US-10-101-464A-113	Sequence 113, App
31	34	65.4	321	2	US-09-498-520A-18	Sequence 18, Appl
32	34	65.4	527	1	US-08-246-583-2	Sequence 2, Appl
33	34	65.4	537	2	US-09-949-016-7509	Sequence 7509, Ap
34	34	65.4	538	1	US-08-933-227-5	Sequence 5, Appl
35	34	65.4	538	2	US-09-636-791A-4	Sequence 4, Appl
36	34	65.4	538	2	US-09-538-092-1186	Sequence 1186, Ap
37	34	65.4	538	2	US-08-444-994-11	Sequence 11, Appl
38	34	65.4	540	2	US-09-949-016-8190	Sequence 8190, Ap
39	34	65.4	542	1	US-08-246-583-3	Sequence 3, Appl
40	34	65.4	542	2	US-09-636-791A-5	Sequence 5, Appl
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42	34	65.4	542	2	US-08-444-994-12	Sequence 12, Appl
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47	33	63.5	155	2	US-09-270-767-35225	Sequence 35225, A
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50	33	63.5	313	2	US-09-489-039A-13053	Sequence 13053, A
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52	33	63.5	338	2	US-09-252-991A-17390	Sequence 17390, A
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61	33	63.5	982	2	US-09-248-796A-20628	Sequence 20628, A
62	33	63.5	1872	1	US-08-188-582-14	Sequence 14, Appl
63	33	63.5	1872	1	US-08-646-775-14	Sequence 14, Appl
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77	32	61.5	309	2	US-09-538-092-854	Sequence 854, App
78	32	61.5	309	2	US-09-538-092-902	Sequence 902, App
79	32	61.5	309	2	US-09-949-016-6461	Sequence 6461, Ap
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85	32	61.5	377	2	US-09-487-558B-270	Sequence 270, App
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93	32	61.5	487	1	US-08-503-226B-7	Sequence 7, Appl
94	32	61.5	487	1	US-08-721-458B-7	Sequence 2, Appl
95	32	61.5	494	2	US-09-517-779-2	Sequence 7, Appl
96	32	61.5	499	2	US-09-949-016-7370	Sequence 7370, Ap
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104	32	61.5	611	2	US-08-904-871-4	Sequence 4, Appl1	177	31	59.6	1127	2	US-09-949-016-8766	Sequence 8767, Ap
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106	32	61.5	621	2	US-09-438-185A-375	Sequence 375, App	179	31	59.6	1127	2	US-09-949-016-8768	Sequence 8769, Ap
107	32	61.5	662	2	US-09-438-185A-464	Sequence 464, App	180	31	59.6	1127	2	US-09-949-016-8769	Sequence 8803, Ap
108	32	61.5	696	2	US-08-904-871-12	Sequence 12, Appl	181	31	59.6	1558	2	US-09-949-016-7371	Sequence 7371, Ap
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112	31	59.6	60	2	US-09-270-767-49207	Sequence 49207, A	185	30	57.7	20	2	US-09-962-756-820	Sequence 831, App
113	31	59.6	129	2	US-09-674-3208-2	Sequence 2, Appl1	186	30	57.7	20	2	US-09-962-756-831	Sequence 12, Appl
114	31	59.6	134	2	US-09-270-767-62175	Sequence 62175, A	187	30	57.7	60	2	US-09-215-221-12	Sequence 18, Appl
115	31	59.6	135	2	US-09-252-991A-25164	Sequence 25164, A	188	30	57.7	98	2	US-07-736-335E-18	Sequence 19, Appl
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117	31	59.6	138	2	US-08-586-039B-37	Sequence 37, Appl	190	30	57.7	104	2	US-09-270-767-47139	Sequence 47199, A
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120	31	59.6	158	2	US-08-586-039B-39	Sequence 39, Appl	193	30	57.7	106	2	US-08-467-344A-226	Sequence 226, App
121	31	59.6	158	2	US-09-699-769-39	Sequence 39, Appl	194	30	57.7	106	2	US-08-454-550B-226	Sequence 226, App
122	31	59.6	158	2	US-10-071-370A-4	Sequence 4, Appl1	195	30	57.7	106	2	US-09-270-767-40608	Sequence 40608, A
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127	31	59.6	309	2	US-09-058-489-7	Sequence 7, Appl1	200	30	57.7	141	2	US-09-252-991A-20331	Sequence 40383, A
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129	31	59.6	319	1	US-08-746-682A-7	Sequence 7, Appl1	202	30	57.7	146	2	US-09-270-767-55599	Sequence 55599, A
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131	31	59.6	468	2	US-09-252-991A-30558	Sequence 30558, A	204	30	57.7	150	2	US-09-489-039A-13888	Sequence 13888, A
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133	31	59.6	478	2	US-09-147-522-2	Sequence 2, Appl1	206	30	57.7	160	2	US-09-270-767-48688	Sequence 48688, A
134	31	59.6	486	2	US-09-147-522-4	Sequence 4, Appl1	207	30	57.7	180	2	US-09-252-991A-31056	Sequence 31056, A
135	31	59.6	486	2	US-09-147-522-6	Sequence 6, Appl1	208	30	57.7	187	2	US-09-270-767-61085	Sequence 61085, A
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138	31	59.6	509	2	US-09-744-016A-12	Sequence 12, Appl	211	30	57.7	202	2	US-09-912-962-49	Sequence 49, Appl
139	31	59.6	514	2	US-09-744-016A-30	Sequence 30, Appl	212	30	57.7	202	2	US-09-270-767-37507	Sequence 37507, A
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142	31	59.6	535	2	US-09-949-016-11179	Sequence 11179, A	215	30	57.7	211	2	US-09-839-479-62	Sequence 62, Appl
143	31	59.6	541	2	US-09-058-489-40	Sequence 40, Appl	216	30	57.7	212	2	US-09-270-767-45572	Sequence 45572, A
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147	31	59.6	600	2	US-08-904-871-3	Sequence 3, Appl1	220	30	57.7	257	2	US-09-543-681A-7481	Sequence 7481, Ap
148	31	59.6	679	2	US-09-949-016-7268	Sequence 7268, Ap	221	30	57.7	261	2	US-10-104-047-2517	Sequence 2517, Ap
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151	31	59.6	748	1	US-08-937-931-4	Sequence 4, Appl1	224	30	57.7	265	2	US-09-605-703B-968	Sequence 968, App
152	31	59.6	748	2	US-09-285-502-4	Sequence 4, Appl1	225	30	57.7	279	2	US-09-489-039A-14220	Sequence 14220, A
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154	31	59.6	748	2	US-09-709-126-4	Sequence 4, Appl1	227	30	57.7	283	2	US-09-636-499-24	Sequence 24, Appl
155	31	59.6	748	2	US-09-871-385A-4	Sequence 4, Appl1	228	30	57.7	305	2	US-09-270-767-46577	Sequence 46577, A
156	31	59.6	749	1	US-08-937-931-8	Sequence 8, Appl1	229	30	57.7	310	2	US-09-215-221-27	Sequence 27, Appl
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158	31	59.6	749	2	US-09-709-126-8	Sequence 8, Appl1	231	30	57.7	324	2	US-09-270-767-53701	Sequence 53701, A
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161	31	59.6	772	2	US-09-949-016-11424	Sequence 11424, A	234	30	57.7	368	2	US-10-011-749-20	Sequence 20, Appl
162	31	59.6	799	2	US-09-030-335-4	Sequence 4, Appl1	235	30	57.7	369	2	US-09-902-540-13278	Sequence 13278, A
163	31	59.6	854	2	US-09-949-016-6870	Sequence 6870, Ap	236	30	57.7	375	2	US-09-000-094-22	Sequence 22, Appl
164	31	59.6	1072	2	US-09-949-016-6973	Sequence 6973, Ap	237	30	57.7	375	2	US-10-011-749-22	Sequence 22, Appl
165	31	59.6	1085	2	US-09-949-016-8762	Sequence 8762, Ap	238	30	57.7	387	2	US-09-248-796A-22214	Sequence 22214, A
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167	31	59.6	1085	2	US-09-949-016-8764	Sequence 8764, Ap	240	30	57.7	415	2	US-09-489-039A-11534	Sequence 11534, A
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171	31	59.6	1114	2	US-09-949-016-6972	Sequence 6972, Ap	244	30	57.7	434	2	US-09-433-241A-14	Sequence 14, Appl
172	31	59.6	1114	2	US-09-949-016-6975	Sequence 6975, Ap	245	30	57.7	435	2	US-09-433-241A-12	Sequence 12, Appl
173	31	59.6	1127	2	US-09-949-016-7671	Sequence 7671, Ap	246	30	57.7	463	2	US-09-270-767-43524	Sequence 43524, A

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247	30	57.7	465	2	US-09-000-094-24	Sequence 24, Appl	320	29	55.8	149	2	US-08-586-039B-47	Sequence 47, Appl
248	30	57.7	465	2	US-10-011-749-24	Sequence 24, Appl	321	29	55.8	149	2	US-09-355-700-55	Sequence 55, Appl
249	30	57.7	466	2	US-09-215-221-24	Sequence 24, Appl	322	29	55.8	149	2	US-08-706-054A-5	Sequence 5, Appl
250	30	57.7	479	2	US-09-248-796A-20023	Sequence 20023, A	323	29	55.8	149	2	US-09-699-769-47	Sequence 47, Appl
251	30	57.7	485	2	US-09-540-236-2761	Sequence 2761, Ap	324	29	55.8	149	2	US-09-313-239-5	Sequence 54, Appl
252	30	57.7	498	2	US-09-252-918-21973	Sequence 21973, A	325	29	55.8	149	2	US-08-671-573B-54	Sequence 54, Appl
253	30	57.7	502	2	US-09-949-016-10218	Sequence 10218, A	326	29	55.8	149	2	US-09-631-092B-5	Sequence 106, App
254	30	57.7	510	2	US-09-744-016A-6	Sequence 6, Appl1	327	29	55.8	149	2	US-09-468-647A-106	Sequence 6252, Ap
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256	30	57.7	521	2	US-09-538-092-1283	Sequence 1283, Ap	329	29	55.8	149	2	US-09-534-376A-55	Sequence 3811, A
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259	30	57.7	523	2	US-09-744-016A-21	Sequence 21, Appl	332	29	55.8	154	2	US-08-586-039B-41	Sequence 41, Appl
259	30	57.7	533	2	US-09-949-016A-18	Sequence 18, Appl	333	29	55.8	154	2	US-09-699-769-47	Sequence 114, App
260	30	57.7	577	2	US-10-104-047-3148	Sequence 3148, Ap	334	29	55.8	155	2	US-09-370-838-114	Sequence 114, App
261	30	57.7	703	2	US-08-111-731A-152	Sequence 152, App	335	29	55.8	155	2	US-08-247-904B-10	Sequence 10, Appl
262	30	57.7	822	2	US-09-824-734-3	Sequence 3, Appl1	336	29	55.8	158	1	US-08-767-942A-19	Sequence 19, Appl
263	30	57.7	994	2	US-09-902-540-13822	Sequence 13822, A	337	29	55.8	159	2	US-09-949-016-9090	Sequence 9090, Ap
264	30	57.7	1587	2	US-09-000-094-46	Sequence 46, Appl	338	29	55.8	169	2	US-08-483-533-28	Sequence 28, Appl
265	30	57.7	1587	2	US-10-011-749-46	Sequence 46, Appl	339	29	55.8	169	2	US-09-283-471A-28	Sequence 48, Appl
266	30	57.7	1673	2	US-09-418-710-70	Sequence 70, Appl	340	29	55.8	170	1	US-08-039-297B-8	Sequence 5, Appl1
267	30	57.7	1673	2	US-09-839-479-69	Sequence 69, Appl	341	29	55.8	170	2	US-08-586-039B-45	Sequence 45, Appl
268	30	57.7	1674	2	US-09-418-710-1	Sequence 1, Appl1	342	29	55.8	170	2	US-09-431-888-5	Sequence 28, Appl
269	30	57.7	1674	2	US-09-839-479-1	Sequence 1, Appl1	343	29	55.8	170	2	US-09-699-769-45	Sequence 28, Appl
270	30	57.7	1674	2	US-09-328-352-8163	Sequence 8163, Ap	344	29	55.8	170	2	US-09-438-046-11	Sequence 45, Appl
271	29.5	56.7	316	2	US-09-762-724-10	Sequence 10, Appl	345	29	55.8	170	2	US-09-214-982-32	Sequence 32, Appl
272	29.5	56.7	1009	2	US-08-159-339A-565	Sequence 565, App	346	29	55.8	174	2	US-09-785-669-2	Sequence 2, Appl1
273	29	55.8	9	1	US-08-435-019-14	Sequence 13, Appl	347	29	55.8	174	2	US-09-949-016-6706	Sequence 6706, Ap
274	29	55.8	10	2	US-08-833-838B-13	Sequence 13, Appl	348	29	55.8	176	2	US-08-483-533-33	Sequence 33, Appl
275	29	55.8	10	2	US-08-435-019-10	Sequence 10, Appl	349	29	55.8	179	2	US-09-283-471A-33	Sequence 13, Appl
276	29	55.8	13	1	US-09-438-046-25	Sequence 25, Appl	350	29	55.8	179	2	US-08-848-580-12	Sequence 12, Appl
277	29	55.8	15	2	US-09-435-019-17	Sequence 17, Appl	351	29	55.8	181	2	US-08-488-123-12	Sequence 12, Appl
278	29	55.8	16	1	US-08-296-898-1	Sequence 1, Appl1	352	29	55.8	181	2	US-09-949-016-11428	Sequence 11428, A
279	29	55.8	26	1	US-08-435-019-2	Sequence 2, Appl1	353	29	55.8	211	1	US-07-915-93A-4	Sequence 4, Appl1
280	29	55.8	36	2	US-09-270-767-59856	Sequence 59856, A	354	29	55.8	211	1	US-08-325-743-4	Sequence 4, Appl1
281	29	55.8	36	2	US-08-975-080-22	Sequence 22, Appl	355	29	55.8	228	2	US-09-182-145-19	Sequence 19, Appl
282	29	55.8	50	2	US-08-975-080-31	Sequence 31, Appl	356	29	55.8	229	2	US-09-182-145-98	Sequence 98, Appl
283	29	55.8	50	2	US-10-138-618-22	Sequence 22, Appl	357	29	55.8	229	2	US-09-182-145-97	Sequence 97, Appl
284	29	55.8	50	2	US-10-138-618-31	Sequence 31, Appl	358	29	55.8	231	2	US-09-182-145-96	Sequence 96, Appl
285	29	55.8	50	2	US-09-690-825-22	Sequence 22, Appl	359	29	55.8	232	2	US-09-182-145-95	Sequence 95, Appl
286	29	55.8	50	2	US-09-690-825-22	Sequence 22, Appl	360	29	55.8	233	2	US-09-182-145-94	Sequence 94, Appl
287	29	55.8	50	2	US-09-690-825-31	Sequence 31, Appl	361	29	55.8	234	2	US-09-182-145-93	Sequence 93, Appl
288	29	55.8	51	2	US-09-328-352-8091	Sequence 8091, Ap	362	29	55.8	235	2	US-09-182-145-92	Sequence 92, Appl
289	29	55.8	65	2	US-09-248-796A-22759	Sequence 22759, A	363	29	55.8	236	2	US-09-182-145-91	Sequence 91, Appl
290	29	55.8	75	2	US-09-248-796A-23423	Sequence 23423, A	364	29	55.8	237	2	US-09-182-145-90	Sequence 90, Appl
291	29	55.8	79	2	US-08-596-684F-6	Sequence 6, Appl1	365	29	55.8	237	2	US-09-489-039A-9365	Sequence 9365, Ap
292	29	55.8	79	2	US-09-515-356-1	Sequence 1, Appl1	366	29	55.8	238	2	US-09-182-145-89	Sequence 89, Appl
293	29	55.8	79	2	US-09-788-308F-2	Sequence 2, Appl1	367	29	55.8	238	2	US-09-182-145-88	Sequence 88, Appl
294	29	55.8	83	2	US-08-905-223-458	Sequence 458, App	368	29	55.8	240	1	US-08-261-822A-75	Sequence 75, Appl
295	29	55.8	89	2	US-09-248-796A-25994	Sequence 25994, A	369	29	55.8	240	1	US-09-182-145-88	Sequence 88, Appl
296	29	55.8	112	1	US-09-193-877-4	Sequence 4, Appl1	370	29	55.8	240	4	PCT-US95-07744A-75	Sequence 75, Appl
297	29	55.8	126	2	US-08-483-533-31	Sequence 31, Appl	371	29	55.8	241	2	US-09-182-145-87	Sequence 87, Appl
298	29	55.8	126	2	US-09-283-471A-31	Sequence 31, Appl	372	29	55.8	242	2	US-09-182-145-86	Sequence 86, Appl
299	29	55.8	137	2	US-09-252-991A-27555	Sequence 27555, A	373	29	55.8	243	2	US-09-182-145-85	Sequence 85, Appl
300	29	55.8	138	2	US-09-252-991A-24579	Sequence 24579, A	374	29	55.8	244	2	US-09-182-145-84	Sequence 84, Appl
301	29	55.8	141	2	US-08-744-138-5	Sequence 5, Appl1	375	29	55.8	245	2	US-08-483-533-42	Sequence 42, Appl
302	29	55.8	141	2	US-08-744-138-6	Sequence 6, Appl1	376	29	55.8	245	2	US-09-283-471A-42	Sequence 42, Appl
303	29	55.8	141	2	US-09-431-480-11	Sequence 11, Appl	377	29	55.8	245	2	US-09-182-145-83	Sequence 83, Appl
304	29	55.8	141	2	US-09-617-302-11	Sequence 11, Appl	378	29	55.8	246	1	US-08-704-931-2	Sequence 82, Appl
305	29	55.8	141	2	US-09-241-376-5	Sequence 5, Appl1	379	29	55.8	246	2	US-09-182-145-82	Sequence 82, Appl
306	29	55.8	141	2	US-09-241-376-6	Sequence 6, Appl1	380	29	55.8	252	2	US-09-182-145-81	Sequence 81, Appl
307	29	55.8	141	2	US-09-940-497-5	Sequence 5, Appl1	381	29	55.8	252	2	US-09-182-145-80	Sequence 80, Appl
308	29	55.8	141	2	US-09-940-497-6	Sequence 6, Appl1	382	29	55.8	254	2	US-09-182-145-79	Sequence 79, Appl
309	29	55.8	141	2	US-08-849-303-22	Sequence 22, Appl	383	29	55.8	254	2	US-09-182-145-78	Sequence 78, Appl
310	29	55.8	141	2	US-08-849-303-24	Sequence 24, Appl	384	29	55.8	254	2	US-09-182-145-78	Sequence 78, Appl
311	29	55.8	141	2	US-09-248-796A-21163	Sequence 21163, A	385	29	55.8	252	2	US-08-483-533-43	Sequence 43, Appl
312	29	55.8	144	2	US-09-270-767-61408	Sequence 61408, A	386	29	55.8	252	2	US-09-283-471A-43	Sequence 43, Appl
313	29	55.8	148	2	US-09-270-767-32420	Sequence 32420, A	387	29	55.8	254	2	US-09-252-991A-30634	Sequence 30634, A
314	29	55.8	148	2	US-09-270-767-47637	Sequence 47637, A	388	29	55.8	257	2	US-08-596-684F-7	Sequence 26, Appl1
315	29	55.8	148	2	US-09-248-796A-25727	Sequence 25727, A	389	29	55.8	258	2	US-08-483-533-26	Sequence 26, Appl
316	29	55.8	149	1	US-08-469-427A-14	Sequence 14, Appl	390	29	55.8	258	2	US-09-283-471A-26	Sequence 26, Appl
317	29	55.8	149	1	US-08-039-287B-2	Sequence 2, Appl1	391	29	55.8	258	2	US-09-283-471A-26	Sequence 26, Appl
318	29	55.8	149	1	US-08-569-063C-21	Sequence 21, Appl	392	29	55.8	258	2	US-09-283-471A-26	Sequence 26, Appl
319	29	55.8	149	2	US-08-795-430-55	Sequence 55, Appl	392	29	55.8	258	2	US-09-283-471A-26	Sequence 26, Appl

393	29	55.8	260	1	US-09-193-877-3	Sequence 3, Appl1	466	29	55.8	566	2	US-09-784-984B-51	Sequence 51, Appl1
394	29	55.8	260	1	US-09-193-877-6	Sequence 6, Appl1	467	29	55.8	566	2	US-09-949-016-6719	Sequence 6719, Ap
395	29	55.8	263	4	PCT-US91-06532-2	Sequence 2, Appl1	468	29	55.8	570	2	US-09-949-016-6907	Sequence 8907, Ap
396	29	55.8	264	2	US-08-483-533-40	Sequence 40, Appl1	469	29	55.8	574	2	US-09-248-796A-15283	Sequence 15283, A
397	29	55.8	264	2	US-09-283-471A-40	Sequence 40, Appl1	470	29	55.8	581	1	US-08-446-038B-17	Sequence 17, Appl1
398	29	55.8	266	2	US-09-248-796A-18212	Sequence 18212, A	471	29	55.8	581	1	US-08-446-010B-17	Sequence 17, Appl1
399	29	55.8	271	1	US-08-117-083-14	Sequence 14, Appl1	472	29	55.8	581	1	US-08-805-445-17	Sequence 17, Appl1
400	29	55.8	273	2	US-09-540-236-2730	Sequence 2730, Ap	473	29	55.8	581	1	US-08-064-067D-17	Sequence 17, Appl1
401	29	55.8	278	2	US-09-485-885-21	Sequence 21, Appl1	474	29	55.8	581	1	US-09-066-208-17	Sequence 17, Appl1
402	29	55.8	284	2	US-09-328-352-5307	Sequence 5307, Ap	475	29	55.8	587	1	US-08-871-268B-18	Sequence 18, Appl1
403	29	55.8	297	2	US-09-248-796A-18554	Sequence 18554, A	476	29	55.8	587	1	US-09-018-864A-18	Sequence 18, Appl1
404	29	55.8	309	2	US-09-487-558B-290	Sequence 290, App	477	29	55.8	587	2	US-08-871-267B-24	Sequence 24, Appl1
405	29	55.8	311	2	US-09-949-016-9126	Sequence 9126, Ap	478	29	55.8	587	2	US-09-618-419-24	Sequence 24, Appl1
406	29	55.8	337	2	US-09-248-796A-15798	Sequence 15798, A	479	29	55.8	591	2	US-09-201-356-42	Sequence 42, Appl1
407	29	55.8	339	2	US-09-800-729-128	Sequence 128, App	480	29	55.8	591	2	US-09-011-356-42	Sequence 42, Appl1
408	29	55.8	339	2	US-09-800-729-129	Sequence 129, App	481	29	55.8	591	2	US-09-672-717-229	Sequence 229, App
409	29	55.8	341	2	US-09-270-767-45876	Sequence 45876, A	482	29	55.8	593	2	US-09-201-932-8	Sequence 42, Appl1
410	29	55.8	342	2	US-09-328-352-6378	Sequence 6378, Ap	483	29	55.8	593	2	US-09-949-016-7031	Sequence 7031, Ap
411	29	55.8	348	2	US-09-252-991A-30224	Sequence 30224, A	484	29	55.8	596	2	US-09-949-016-8124	Sequence 8124, Ap
412	29	55.8	354	2	US-09-198-452A-350	Sequence 350, App	485	29	55.8	612	2	US-09-212-971-14	Sequence 14, Appl1
413	29	55.8	354	2	US-09-438-185A-331	Sequence 331, App	486	29	55.8	612	2	US-08-800-929A-14	Sequence 14, Appl1
414	29	55.8	355	2	US-08-483-533-41	Sequence 41, Appl1	487	29	55.8	612	2	US-08-569-749-14	Sequence 14, Appl1
415	29	55.8	355	2	US-09-283-471A-41	Sequence 41, Appl1	488	29	55.8	612	2	US-09-617-053A-14	Sequence 14, Appl1
416	29	55.8	355	2	US-09-902-540-13397	Sequence 13397, A	489	29	55.8	612	2	US-09-689-366-14	Sequence 14, Appl1
417	29	55.8	355	2	PCT-US91-06532-3	Sequence 3, Appl1	490	29	55.8	612	2	US-10-233-286-14	Sequence 14, Appl1
418	29	55.8	356	2	US-09-543-681A-7991	Sequence 7991, Ap	491	29	55.8	612	4	PCT-US96-12860-14	Sequence 14, Appl1
419	29	55.8	370	2	US-09-800-729-215	Sequence 215, App	492	29	55.8	618	1	US-08-511-485-8	Sequence 8, Appl1
420	29	55.8	372	1	US-09-902-540-9972	Sequence 9972, Ap	493	29	55.8	618	1	US-09-212-971-8	Sequence 8, Appl1
421	29	55.8	372	1	US-08-196-218-33	Sequence 33, Appl1	494	29	55.8	618	2	US-08-800-929A-8	Sequence 8, Appl1
422	29	55.8	372	1	US-08-681-953-33	Sequence 33, Appl1	495	29	55.8	618	2	US-08-569-749-2	Sequence 2, Appl1
423	29	55.8	379	1	US-09-191-136-32	Sequence 32, Appl1	496	29	55.8	618	2	US-09-617-053A-8	Sequence 8, Appl1
424	29	55.8	381	1	US-09-193-877-2	Sequence 2, Appl1	497	29	55.8	618	2	US-09-069-023-39	Sequence 29, Appl1
425	29	55.8	381	2	US-09-949-016-10057	Sequence 10057, A	498	29	55.8	618	2	US-09-201-926-8	Sequence 8, Appl1
426	29	55.8	383	1	US-09-485-885-23	Sequence 23, Appl1	499	29	55.8	618	2	US-09-011-356-8	Sequence 8, Appl1
427	29	55.8	385	1	US-08-340-539A-2	Sequence 2, Appl1	500	29	55.8	618	2	US-09-672-717-223	Sequence 223, App
428	29	55.8	385	1	US-08-461-592B-2	Sequence 2, Appl1	501	29	55.8	618	2	US-09-201-932-8	Sequence 8, Appl1
429	29	55.8	399	1	US-08-742-621-3	Sequence 3, Appl1	502	29	55.8	618	2	US-09-689-366-2	Sequence 2, Appl1
430	29	55.8	399	1	US-08-742-621-4	Sequence 4, Appl1	503	29	55.8	618	2	US-10-233-286-2	Sequence 2, Appl1
431	29	55.8	399	1	US-08-750-134A-5	Sequence 5, Appl1	504	29	55.8	618	4	PCT-US96-12860-2	Sequence 2, Appl1
432	29	55.8	399	1	US-08-750-134A-11	Sequence 11, Appl1	505	29	55.8	675	1	US-08-386-495-10	Sequence 10, Appl1
433	29	55.8	399	2	US-09-363-745-5	Sequence 5, Appl1	506	29	55.8	675	4	PCT-US96-02331-10	Sequence 10, Appl1
434	29	55.8	399	2	US-09-363-745-11	Sequence 11, Appl1	507	29	55.8	720	2	US-09-252-991A-18618	Sequence 18618, A
435	29	55.8	399	2	US-09-949-016-6236	Sequence 6236, Ap	508	29	55.8	730	1	US-08-420-235B-17	Sequence 17, Appl1
436	29	55.8	402	1	US-09-068-729-4	Sequence 4, Appl1	509	29	55.8	730	2	US-08-793-624-17	Sequence 17, Appl1
437	29	55.8	402	1	US-09-255-671-4	Sequence 4, Appl1	510	29	55.8	730	4	PCT-US95-10194-17	Sequence 17, Appl1
438	29	55.8	402	2	US-09-395-366-4	Sequence 4, Appl1	511	29	55.8	811	2	US-09-248-796A-18641	Sequence 18641, A
439	29	55.8	402	2	US-09-826-509-557	Sequence 557, App	512	29	55.8	842	4	PCT-US96-02331-15	Sequence 15, Appl1
440	29	55.8	412	2	US-09-079-030-124	Sequence 124, App	513	29	55.8	854	2	US-09-949-016-6934	Sequence 6934, Ap
441	29	55.8	412	2	US-09-270-767-43104	Sequence 43104, A	514	29	55.8	923	2	US-09-345-473B-23	Sequence 23, Appl1
442	29	55.8	423	2	US-09-758-759-63	Sequence 63, Appl1	515	29	55.8	923	2	US-09-862-027-53	Sequence 23, Appl1
443	29	55.8	423	2	US-09-910-430-32	Sequence 32, Appl1	516	29	55.8	1006	2	US-09-949-016-8421	Sequence 8421, Ap
444	29	55.8	429	2	US-08-965-762-29	Sequence 29, Appl1	517	29	55.8	1006	2	US-09-949-016-8530	Sequence 8530, Ap
445	29	55.8	429	2	US-09-911-927-29	Sequence 29, Appl1	518	29	55.8	1132	1	US-08-446-038B-18	Sequence 18, Appl1
446	29	55.8	429	2	US-09-911-882-29	Sequence 29, Appl1	519	29	55.8	1132	1	US-08-446-010B-18	Sequence 18, Appl1
447	29	55.8	429	2	US-09-911-888-29	Sequence 29, Appl1	520	29	55.8	1132	1	US-08-805-445-18	Sequence 18, Appl1
448	29	55.8	436	1	US-08-846-762-3	Sequence 3, Appl1	521	29	55.8	1132	1	US-08-064-067D-18	Sequence 18, Appl1
449	29	55.8	436	1	US-08-846-762-72	Sequence 72, Appl1	522	29	55.8	1132	1	US-09-066-208-18	Sequence 18, Appl1
450	29	55.8	438	4	PCT-US95-05922A-2	Sequence 2, Appl1	523	29	55.8	1142	1	US-08-097-997A-11	Sequence 11, Appl1
451	29	55.8	453	2	US-09-949-016-10007	Sequence 10007, A	524	29	55.8	1142	2	US-08-665-574C-11	Sequence 11, Appl1
452	29	55.8	454	2	US-09-252-991A-28653	Sequence 28653, A	525	29	55.8	1142	2	US-08-946-994-11	Sequence 11, Appl1
453	29	55.8	466	2	US-09-134-000C-5176	Sequence 5176, Ap	526	29	55.8	1142	2	US-09-771-161A-211	Sequence 21, App
454	29	55.8	499	2	US-09-902-540-15512	Sequence 15512, A	527	29	55.8	1147	1	US-08-131-365B-38	Sequence 38, Appl1
455	29	55.8	514	2	US-09-949-016-6538	Sequence 6538, Ap	528	29	55.8	1147	1	US-08-668-123-38	Sequence 38, Appl1
456	29	55.8	514	2	US-09-902-540-9755	Sequence 9755, Ap	529	29	55.8	1153	1	US-08-097-997A-14	Sequence 14, Appl1
457	29	55.8	521	2	US-09-949-016-8809	Sequence 8809, Ap	530	29	55.8	1153	2	US-08-665-574C-14	Sequence 14, Appl1
458	29	55.8	529	2	US-09-149-476-732	Sequence 732, App	531	29	55.8	1154	1	US-08-946-994-14	Sequence 14, Appl1
459	29	55.8	531	2	US-09-270-767-44938	Sequence 44938, A	532	29	55.8	1154	1	US-08-357-598-7	Sequence 7, Appl1
460	29	55.8	548	2	US-09-149-476-469	Sequence 469, App	533	29	55.8	1154	1	US-08-446-010B-24	Sequence 24, Appl1
461	29	55.8	550	2	US-09-538-092-1075	Sequence 1075, Ap	534	29	55.8	1154	1	US-09-003-289-7	Sequence 7, Appl1
462	29	55.8	551	1	US-08-120-960-2	Sequence 2, Appl1	535	29	55.8	1154	4	PCT-US95-16433-7	Sequence 7, Appl1
463	29	55.8	551	2	US-09-347-878-9	Sequence 9, Appl1	536	29	55.8	1164	2	US-09-949-016-9845	Sequence 9845, Ap
464	29	55.8	561	2	US-09-252-991A-16726	Sequence 16726, A	537	29	55.8	1239	1	US-08-937-931-2	Sequence 2, Appl1
465	29	55.8	566	2	US-09-232-468A-14	Sequence 14, Appl1	538	29	55.8	1239	2	US-09-285-502-2	Sequence 2, Appl1

539	29	55.8	1239	2	US-09-709-126-2	Sequence 2, Appli	612	28	53.8	225	2	US-09-513-999C-6037	Sequence 6037, Ap
540	29	53.8	1239	2	US-09-871-385A-2	Sequence 2, Appli	613	28	53.8	228	2	US-09-489-039A-761	Sequence 761, Ap
541	29	53.8	1239	2	US-08-962-284-2	Sequence 2, Appli	614	28	53.8	233	2	US-09-270-767-77013	Sequence 77013, A
542	29	55.8	1788	1	US-08-962-284-4	Sequence 4, Appli	615	28	53.8	233	2	US-09-270-767-82230	Sequence 82230, A
543	28.5	54.8	302	2	US-09-657-013-49	Sequence 49, Appli	616	28	53.8	236	2	US-08-311-731A-177	Sequence 177, App
544	28.5	54.8	302	2	US-09-949-016-6893	Sequence 6893, Ap	617	28	53.8	243	2	US-09-248-796A-15510	Sequence 15510, A
545	28	53.8	41	1	US-08-726-306A-83	Sequence 83, Appli	618	28	53.8	246	2	US-09-270-767-99888	Sequence 99888, A
546	28	53.8	42	1	US-08-751-305-9	Sequence 9, Appli	619	28	53.8	246	2	US-09-270-767-55105	Sequence 55105, A
547	28	53.8	49	1	US-09-800-729-105	Sequence 105, App	620	28	53.8	260	2	US-09-489-039A-13882	Sequence 13882, A
548	28	53.8	50	2	US-08-975-080-30	Sequence 30, Appli	621	28	53.8	262	2	US-09-976-594-147	Sequence 147, App
549	28	53.8	50	2	US-09-919-039-50	Sequence 50, Appli	622	28	53.8	266	2	US-09-579-664B-13	Sequence 13, Appli
550	28	53.8	50	2	US-10-138-618-30	Sequence 30, Appli	623	28	53.8	266	2	US-10-355-975A-13	Sequence 13, Appli
551	28	53.8	50	2	US-09-690-825-30	Sequence 30, Appli	624	28	53.8	268	2	US-09-489-039A-14122	Sequence 14122, A
552	28	53.8	55	2	US-09-489-847-180	Sequence 180, App	625	28	53.8	270	2	US-10-104-047-3274	Sequence 3274, Ap
553	28	53.8	60	2	US-09-673-395A-469	Sequence 469, App	626	28	53.8	271	2	US-09-107-552A-3966	Sequence 3966, Ap
554	28	53.8	60	2	US-09-800-729-197	Sequence 197, App	627	28	53.8	272	2	US-09-328-352-7434	Sequence 7434, Ap
555	28	53.8	69	2	US-09-471-276-1263	Sequence 1263, Ap	628	28	53.8	275	2	US-09-579-664B-8	Sequence 8, Appli
556	28	53.8	81	2	US-09-690-454-167	Sequence 167, App	629	28	53.8	286	2	US-09-270-767-44940	Sequence 44940, A
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558	28	53.8	86	2	US-09-134-001C-3919	Sequence 3919, Ap	631	28	53.8	289	2	US-09-252-991A-32560	Sequence 32560, A
559	28	53.8	86	2	US-09-270-767-59656	Sequence 59656, A	632	28	53.8	294	2	US-09-270-767-58266	Sequence 58266, A
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563	28	53.8	91	2	US-09-248-796A-24821	Sequence 24821, A	636	28	53.8	301	2	US-09-543-681A-8264	Sequence 8264, Ap
564	28	53.8	106	2	US-09-540-236-2095	Sequence 2095, Ap	637	28	53.8	301	2	US-09-270-767-43978	Sequence 43978, A
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566	28	53.8	107	2	US-09-583-110-5245	Sequence 5245, Ap	639	28	53.8	309	2	US-09-248-796A-16719	Sequence 16719, A
567	28	53.8	108	2	US-09-107-433-4521	Sequence 4521, Ap	640	28	53.8	310	2	US-09-270-767-66802	Sequence 66802, A
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569	28	53.8	111	2	US-09-270-767-34432	Sequence 34432, A	642	28	53.8	310	2	US-08-943-600A-1	Sequence 1, Appli
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572	28	53.8	113	2	US-09-809-545A-72	Sequence 72, Appli	645	28	53.8	314	2	US-10-355-975A-37	Sequence 37, Appli
573	28	53.8	117	2	US-09-902-540-10282	Sequence 10282, A	646	28	53.8	314	2	US-09-248-796A-32297	Sequence 32297, A
574	28	53.8	122	2	US-09-552-991A-24285	Sequence 24285, A	647	28	53.8	315	2	US-09-949-016-7493	Sequence 7493, Ap
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576	28	53.8	125	2	US-09-605-703B-2022	Sequence 2022, Ap	649	28	53.8	328	1	US-08-600-452A-6	Sequence 15060, Ap
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578	28	53.8	129	2	US-09-270-767-35797	Sequence 35797, A	651	28	53.8	342	2	US-08-742-011-2	Sequence 2, Appli
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580	28	53.8	129	2	US-09-107-433-3947	Sequence 3947, Ap	653	28	53.8	342	2	US-09-116-498-2	Sequence 2, Appli
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586	28	53.8	137	2	US-09-270-767-59385	Sequence 59385, A	659	28	53.8	342	2	US-09-852-156-4	Sequence 4, Appli
587	28	53.8	141	2	US-09-583-110-2819	Sequence 2819, Ap	660	28	53.8	342	2	US-09-852-156-6	Sequence 6, Appli
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589	28	53.8	144	2	US-09-489-039A-8229	Sequence 8229, Ap	662	28	53.8	342	2	US-09-721-341-9	Sequence 9, Appli
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591	28	53.8	157	2	US-09-489-039A-9026	Sequence 9026, Ap	664	28	53.8	351	1	US-08-197-792-39	Sequence 39, Appli
592	28	53.8	157	2	US-09-489-039A-9364	Sequence 9364, Ap	665	28	53.8	351	1	US-08-459-850-39	Sequence 39, Appli
593	28	53.8	158	2	US-09-248-796A-18178	Sequence 18178, A	666	28	53.8	351	1	US-08-459-850-39	Sequence 39, Appli
594	28	53.8	159	1	US-08-197-792-14	Sequence 14, Appli	667	28	53.8	352	1	US-08-483-926A-11	Sequence 11, Appli
595	28	53.8	159	1	US-08-459-850-14	Sequence 14, Appli	668	28	53.8	352	1	US-08-737-045-12	Sequence 12, Appli
596	28	53.8	159	1	US-08-459-850-14	Sequence 14, Appli	669	28	53.8	353	2	US-09-895-593-3	Sequence 3, Appli
597	28	53.8	159	1	US-08-459-850-14	Sequence 14, Appli	670	28	53.8	359	2	US-09-248-796A-18054	Sequence 18054, A
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599	28	53.8	179	2	US-09-248-796A-14788	Sequence 14788, A	672	28	53.8	364	1	US-09-068-109-2	Sequence 2, Appli
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602	28	53.8	180	2	US-09-489-039A-12419	Sequence 12419, A	675	28	53.8	364	1	US-08-459-850-29	Sequence 29, Appli
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606	28	53.8	192	2	US-09-134-000C-5752	Sequence 5752, Appli	679	28	53.8	371	2	US-09-360-107A-125	Sequence 125, App
607	28	53.8	194	2	US-09-252-991A-24154	Sequence 24154, A	680	28	53.8	380	2	US-09-165-522-16	Sequence 16, Appli
608	28	53.8	196	2	US-09-270-767-46722	Sequence 46722, A	681	28	53.8	380	2	US-09-248-796A-18692	Sequence 18692, A
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611	28	53.8	219	2	US-09-248-796A-16897	Sequence 16897, A	684	28	53.8	390	2	US-09-949-016-8580	Sequence 8580, Ap

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689	28	53.8	413	2	US-09-902-540-9834	Sequence 9834, Ap	762	28	53.8	604	4	PCT-US96-12860-4	Sequence 4, Appli
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692	28	53.8	434	2	US-09-543-681A-7780	Sequence 7780, Ap	765	28	53.8	613	2	US-09-949-016-10878	Sequence 10878, A
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695	28	53.8	450	2	US-09-270-767-42943	Sequence 42943, A	768	28	53.8	652	1	US-08-751-305-2	Sequence 2, Appli
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701	28	53.8	471	2	US-09-160-494-2	Sequence 2, Appli	774	28	53.8	773	2	US-09-944-016-10285	Sequence 10285, A
702	28	53.8	471	2	US-09-160-494-6	Sequence 6, Appli	775	28	53.8	774	2	US-09-276-400-7	Sequence 7, Appli
703	28	53.8	471	2	US-09-713-669-4	Sequence 4, Appli	776	28	53.8	774	2	US-09-448-076-7	Sequence 7, Appli
704	28	53.8	478	1	US-09-040-799-3	Sequence 3, Appli	777	28	53.8	777	2	US-09-702-572-7	Sequence 7, Appli
705	28	53.8	478	1	US-09-093-448-1	Sequence 1, Appli	778	28	53.8	780	2	US-09-949-016-6372	Sequence 6372, Ap
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708	28	53.8	478	2	US-09-813-555-1	Sequence 1, Appli	781	28	53.8	805	2	US-09-103-429A-4	Sequence 4, Appli
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710	28	53.8	478	2	US-09-813-555-3	Sequence 3, Appli	783	28	53.8	816	2	US-10-101-464A-827	Sequence 827, App
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715	28	53.8	478	2	US-10-299-867-16	Sequence 16, Appli	788	28	53.8	911	2	US-09-074-579-4	Sequence 4, Appli
716	28	53.8	489	1	US-10-299-867-17	Sequence 17, Appl	789	28	53.8	911	2	US-09-388-774-4	Sequence 4, Appli
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718	28	53.8	489	1	US-08-023-610-6	Sequence 6, Appli	791	28	53.8	1033	2	US-10-022-347-4	Sequence 221, Ap
719	28	53.8	489	1	US-08-288-065A-6	Sequence 6, Appli	792	28	53.8	1077	2	US-10-104-047-4291	Sequence 4291, Ap
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726	28	53.8	502	2	US-09-986-552-13	Sequence 13, Appli	799	28	53.8	1109	2	US-09-291-417D-8	Sequence 88, Appli
727	28	53.8	502	2	US-09-636-596C-13	Sequence 13, Appli	800	28	53.8	1140	2	US-09-579-692B-8	Sequence 8, Appli
728	28	53.8	502	2	US-10-023-894-16	Sequence 16, Appli	801	28	53.8	1166	2	US-09-350-982C-5	Sequence 5, Appli
729	28	53.8	502	2	US-10-306-686-13	Sequence 13, Appli	802	28	53.8	1166	2	US-09-972-115A-6	Sequence 6, Appli
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731	28	53.8	502	2	US-10-023-888-16	Sequence 16, Appl	804	28	53.8	1175	2	US-09-771-161A-225	Sequence 225, App
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733	28	53.8	509	2	US-09-949-016-5887	Sequence 5887, Ap	806	28	53.8	1227	2	US-09-849-602-26	Sequence 26, Appl
734	28	53.8	520	2	US-09-949-016-11495	Sequence 11495, A	807	28	53.8	1233	2	US-09-645-456A-35	Sequence 35, Appli
735	28	53.8	531	2	US-09-661-711A-16	Sequence 16, Appli	808	28	53.8	1233	2	US-09-425-324A-15	Sequence 15, Appli
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739	28	53.8	552	2	US-09-370-767-42435	Sequence 42435, A	812	28	53.8	1234	2	US-09-489-039A-8741	Sequence 8741, Ap
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743	28	53.8	583	2	US-09-270-767-43661	Sequence 43661, A	816	28	53.8	1240	2	US-10-101-464A-976	Sequence 976, App
744	28	53.8	583	2	US-09-843-159B-8	Sequence 8, Appli	817	28	53.8	1247	2	US-09-843-159B-4	Sequence 4, Appli
745	28	53.8	594	2	US-09-380-287A-8	Sequence 8, Appli	818	28	53.8	1260	2	US-09-972-115A-4	Sequence 4, Appli
746	28	53.8	594	2	US-09-380-287A-10	Sequence 10, Appli	819	28	53.8	1269	2	US-09-645-456A-15	Sequence 15, Appli
747	28	53.8	597	2	US-08-844-274-12	Sequence 12, Appli	820	28	53.8	1269	2	US-09-425-324A-15	Sequence 15, Appli
748	28	53.8	597	2	US-09-598-421-12	Sequence 12, Appli	821	28	53.8	1269	2	US-09-645-791-15	Sequence 15, Appli
749	28	53.8	598	2	US-09-949-016-6555	Sequence 6555, Ap	822	28	53.8	1277	2	US-09-645-456A-12	Sequence 12, Appli
750	28	53.8	604	1	US-08-511-485-6	Sequence 6, Appli	823	28	53.8	1277	2	US-09-425-324A-12	Sequence 12, Appli
751	28	53.8	604	2	US-09-212-971-6	Sequence 6, Appli	824	28	53.8	1297	2	US-09-645-791-12	Sequence 12, Appli
752	28	53.8	604	2	US-08-800-929A-6	Sequence 6, Appli	825	28	53.8	1297	2	US-09-291-417D-14	Sequence 14, Appli
753	28	53.8	604	2	US-08-569-749-4	Sequence 4, Appli	826	28	53.8	1297	2	US-09-645-456A-14	Sequence 14, Appli
754	28	53.8	604	2	US-09-617-053A-6	Sequence 6, Appli	827	28	53.8	1298	2	US-09-645-456A-14	Sequence 14, Appli
755	28	53.8	604	2	US-09-201-936-6	Sequence 6, Appli	828	28	53.8	1298	2	US-09-425-324A-14	Sequence 14, Appli
756	28	53.8	604	2	US-09-011-356-6	Sequence 6, Appli	829	28	53.8	1298	2	US-09-645-791-14	Sequence 14, Appli
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835	28	53.8	1324	2	US-09-645-791-13	Sequence 13, Appl	908	27	51.9	73	2	US-09-206-551-91	Sequence 31, Appl
836	28	53.8	1326	2	US-09-688-188B-15	Sequence 15, Appl	909	27	51.9	76	2	US-09-248-796A-27247	Sequence 27247, A
837	28	53.8	1326	2	US-09-291-417D-15	Sequence 15, Appl	910	27	51.9	79	1	US-08-221-285-13	Sequence 33, Appl
838	28	53.8	1332	2	US-09-645-456A-9	Sequence 9, Appl	911	27	51.9	79	2	US-08-428-596A-33	Sequence 33, Appl
839	28	53.8	1332	2	US-09-425-324A-9	Sequence 9, Appl	912	27	51.9	79	2	US-09-107-594A-5949	Sequence 5949, Ap
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842	28	53.8	1353	2	US-09-645-456A-11	Sequence 11, Appl	915	27	51.9	81	2	US-09-679-426-556	Sequence 556, App
843	28	53.8	1353	2	US-09-425-324A-11	Sequence 11, Appl	916	27	51.9	81	2	US-09-759-143-556	Sequence 556, App
844	28	53.8	1353	2	US-09-645-791-11	Sequence 11, Appl	917	27	51.9	81	2	US-09-651-236-556	Sequence 556, App
845	28	53.8	1360	2	US-09-393-569-2	Sequence 2, Appl	918	27	51.9	81	2	US-09-657-279-556	Sequence 556, App
846	28	53.8	1360	2	US-09-579-664B-14	Sequence 14, Appl	919	27	51.9	81	2	US-10-012-886-556	Sequence 556, App
847	28	53.8	1360	2	US-09-645-456A-34	Sequence 34, Appl	920	27	51.9	81	2	US-09-489-039A-13253	Sequence 13253, A
848	28	53.8	1360	2	US-09-425-324A-34	Sequence 34, Appl	921	27	51.9	88	2	US-09-673-395A-171	Sequence 171, App
849	28	53.8	1360	2	US-09-645-791-34	Sequence 34, Appl	922	27	51.9	89	2	US-09-248-796A-25397	Sequence 25397, A
850	28	53.8	1360	2	US-10-355-975A-14	Sequence 14, Appl	923	27	51.9	97	2	US-09-513-999C-4915	Sequence 4915, Ap
851	28	53.8	1765	2	US-09-270-767-45587	Sequence 45587, A	924	27	51.9	103	2	US-09-836-659-59	Sequence 39, Appl
852	28	53.8	2213	1	US-08-727-034-3	Sequence 3, Appl	925	27	51.9	104	2	US-09-288-143-59	Sequence 99, Appl
853	28	53.8	2214	1	US-08-727-034-7	Sequence 7, Appl	926	27	51.9	105	2	US-09-205-258-330	Sequence 330, App
854	28	53.8	2214	2	US-09-919-039-40	Sequence 40, Appl	927	27	51.9	105	2	US-10-004-860-330	Sequence 3, Appl
855	28	53.8	2262	2	US-09-949-016-8849	Sequence 8849, Ap	928	27	51.9	109	2	US-08-691-794-3	Sequence 123, App
856	28	53.8	2375	2	US-09-538-092-1131	Sequence 1131, Ap	929	27	51.9	109	2	US-09-663-600A-123	Sequence 1521, A
857	28	53.8	2476	2	US-09-824-574-7	Sequence 7, Appl	930	27	51.9	109	2	US-09-902-540-15421	Sequence 11, Appl
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859	28	53.8	2713	4	PCT-US96-01735-1	Sequence 1, Appl	932	27	51.9	110	2	US-09-574-708A-11	Sequence 10, Appl
860	28	53.8	2749	2	US-09-385-222A-4	Sequence 4, Appl	933	27	51.9	110	2	US-09-832-270-17	Sequence 10, Appl
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862	27.5	52.9	178	2	US-09-270-767-60433	Sequence 60433, A	935	27	51.9	110	2	US-09-392-931-11	Sequence 11, Appl
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865	27.5	52.9	310	2	US-09-305-856B-14	Sequence 14, Appl	938	27	51.9	111	1	US-08-288-065A-49	Sequence 49, Appl
866	27.5	52.9	572	2	US-08-111-731A-32	Sequence 32, Appl	939	27	51.9	111	1	US-08-362-240A-49	Sequence 49, Appl
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868	27.5	52.9	4019	2	US-09-854-133-425	Sequence 425, App	941	27	51.9	111	2	US-08-804-372A-13	Sequence 49, Appl
869	27.5	52.9	7	2	US-09-139-802-5	Sequence 5, Appl	942	27	51.9	111	4	PCT-US95-10245-49	Sequence 71, Appl
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871	27	51.9	7	2	US-08-926-914-5	Sequence 5, Appl	944	27	51.9	112	2	US-08-469-260A-71	Sequence 71, Appl
872	27	51.9	7	2	US-09-428-082B-1077	Sequence 1077, Ap	945	27	51.9	112	2	US-08-467-344A-71	Sequence 71, Appl
873	27	51.9	12	2	US-08-742-243-35	Sequence 35, Appl	946	27	51.9	112	2	US-08-424-550B-71	Sequence 71, Appl
874	27	51.9	12	2	US-08-742-243-36	Sequence 36, Appl	947	27	51.9	113	2	US-09-270-767-45306	Sequence 45306, A
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876	27	51.9	17	2	US-08-807-992B-23	Sequence 23, Appl	949	27	51.9	114	2	US-09-640-211A-937	Sequence 937, App
877	27	51.9	20	2	US-08-602-999A-110	Sequence 110, App	950	27	51.9	115	2	US-09-621-976-5517	Sequence 5517, Ap
878	27	51.9	20	2	US-09-500-124-110	Sequence 110, App	951	27	51.9	120	6	US-09-134-000C-4336	Sequence 4336, Ap
879	27	51.9	25	2	US-09-471-276-1037	Sequence 1037, Ap	952	27	51.9	120	6	5194596-9	Patent No. 5194596
880	27	51.9	30	2	US-09-774-639-317	Sequence 317, App	953	27	51.9	120	6	5219739-9	Patent No. 5219739
881	27	51.9	43	2	US-09-962-756-1441	Sequence 1441, Ap	954	27	51.9	121	2	US-09-248-796A-15938	Sequence 15938, A
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884	27	51.9	46	1	US-08-221-285-10	Sequence 10, Appl	957	27	51.9	124	2	US-09-583-110-3302	Sequence 3302, Ap
885	27	51.9	46	1	US-08-428-596A-6	Sequence 6, Appl	958	27	51.9	125	2	US-09-270-767-35736	Sequence 35736, A
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887	27	51.9	46	2	US-08-428-596A-10	Sequence 10, Appl	960	27	51.9	126	2	US-09-898-658-37	Sequence 37, Appl
888	27	51.9	49	2	US-09-052-089A-16	Sequence 16, Appl	961	27	51.9	136	2	US-09-621-976-4796	Sequence 47, App
889	27	51.9	49	2	US-09-673-395A-376	Sequence 376, App	962	27	51.9	136	2	US-09-037-983C-15	Sequence 17, Appl
890	27	51.9	49	2	US-09-716-536-16	Sequence 16, Appl	963	27	51.9	137	2	US-09-037-983C-17	Sequence 17, Appl
891	27	51.9	52	2	US-09-959-897-10	Sequence 10, Appl	964	27	51.9	138	2	US-09-107-532A-6953	Sequence 6953, Ap
892	27	51.9	52	2	US-09-959-897-18	Sequence 18, Appl	965	27	51.9	138	2	US-09-037-983C-16	Sequence 16, Appl
893	27	51.9	52	2	US-09-640-211A-851	Sequence 851, App	966	27	51.9	140	2	US-09-270-767-31947	Sequence 31947, A
894	27	51.9	57	2	US-09-270-767-36248	Sequence 36248, A	967	27	51.9	140	2	US-09-270-767-47164	Sequence 47164, A
895	27	51.9	57	2	US-09-270-767-51465	Sequence 51465, A	968	27	51.9	141	2	US-09-519-476-2	Sequence 2, Appl
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897	27	51.9	61	1	US-08-221-285-35	Sequence 35, Appl	970	27	51.9	141	2	US-09-884-050-2	Sequence 2, Appl
898	27	51.9	61	1	US-08-428-596A-35	Sequence 35, Appl	971	27	51.9	145	2	US-08-784-551C-2	Sequence 2, Appl
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902	27	51.9	66	2	US-09-543-681A-6661	Sequence 6661, Ap	975	27	51.9	145	2	US-09-428-909A-2	Sequence 2, Appl
903	27	51.9	67	2	US-09-513-999C-6917	Sequence 6917, Ap	976	27	51.9	145	2	US-09-392-931-4	Sequence 4, Appl

977 27 51.9 145 2 US-10-268-447-4 Sequence 4, Appl 1
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980 27 51.9 147 2 US-08-807-992B-1 Sequence 1, Appl 1
981 27 51.9 147 2 US-09-392-932-1 Sequence 1, Appl 1
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983 27 51.9 147 2 US-09-574-708A-2 Sequence 2, Appl 1
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987 27 51.9 147 2 US-09-533-029-16 Sequence 16, Appl 1
988 27 51.9 147 2 US-09-392-931-2 Sequence 2, Appl 1
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990 27 51.9 149 2 US-09-252-991A-21599 Sequence 21599, A
991 27 51.9 152 2 US-09-621-976-5880 Sequence 5880, Ap
992 27 51.9 155 2 US-09-252-991A-30905 Sequence 30905, A
993 27 51.9 157 2 US-09-543-681A-4437 Sequence 4437, Ap
994 27 51.9 157 2 US-09-248-796A-23444 Sequence 23444, A
995 27 51.9 162 1 US-07-961-702-2 Sequence 2, Appl 1
996 27 51.9 162 1 US-08-472-284-2 Sequence 2, Appl 1
997 27 51.9 162 1 US-08-476-678-2 Sequence 2, Appl 1
998 27 51.9 162 1 US-08-472-418-2 Sequence 2, Appl 1
999 27 51.9 164 2 US-09-244-583-24 Sequence 24, Appl 1
1000 27 51.9 164 6 5194596-17 Patent No. 5194596

ALIGNMENTS

RESULT 1
US-08-934-915-45
Sequence 45, Application US/08934915
Patent No. 5932412
GENERAL INFORMATION:
APPLICANT: DILLNER, JOAKIM
APPLICANT: DILLNER, LENA
APPLICANT: CHENG, HWEE-MING
TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
TITLE OF INVENTION: DIAGNOSTIC PURPOSES
NUMBER OF SEQUENCES: 193
CORRESPONDENCE ADDRESS:
ADDRESSEE: MASON & ASSOCIATES, P.A.
STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
CITY: CLEARWATER
STATE: FLORIDA
COUNTRY: U.S.A.
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 3.0
SOFTWARE: Microsoft Word 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/934,915
FILING DATE: 22-SEP-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/949,836
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: LOUISE A. FOUTCH
REGISTRATION NUMBER: 37,133
REFERENCE/DOCKET NUMBER: 1946.6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 813-538-3800
TELEFAX: 813-538-3820
TELEX:
INFORMATION FOR SEQ ID NO: 45:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid

TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-934-915-45
Query Match 100.0%; Score 52; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.0065;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 PLCDLLIRC 9
DB 11 PLCDLLIRC 19
RESULT 2
US-09-701-080C-18
Sequence 18, Application US/09701080C
Patent No. 6864054
GENERAL INFORMATION:
APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY
TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300 F
FILE REFERENCE: N73477C GCM
CURRENT APPLICATION NUMBER: US/09/701,080C
CURRENT FILING DATE: 2001-02-27
PRIOR APPLICATION NUMBER: GB 9811303.8
PRIOR FILING DATE: 1998-05-26
PRIOR APPLICATION NUMBER: GB 9900157.0
PRIOR FILING DATE: 1999-01-05
NUMBER OF SEQ ID NOS: 36
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 18
LENGTH: 151
TYPE: PRT
ORGANISM: Human papillomavirus
US-09-701-080C-18

Query Match 100.0%; Score 52; DB 2; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.052;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 PLCDLLIRC 9
DB 95 PLCDLLIRC 103
RESULT 3
US-09-980-523A-2
Sequence 2, Application US/09980523A
Patent No. 6783763
GENERAL INFORMATION:
APPLICANT: CHOPPIN, JEANNINE
APPLICANT: BOURGAULT VILLADA, ISABELLE
APPLICANT: GUILLET, JEAN-GERARD
APPLICANT: CONNAN, FRANCINE
APPLICANT: FERRIES, ESTELLE
TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 AND E7
TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
FILE REFERENCE: WO01 AO INS
CURRENT APPLICATION NUMBER: US/09/980,523A
CURRENT FILING DATE: 2002-04-29
PRIOR APPLICATION NUMBER: PCT/FR00/01513
PRIOR FILING DATE: 2000-05-31
PRIOR APPLICATION NUMBER: FR 99/07012
PRIOR FILING DATE: 1999-06-03
NUMBER OF SEQ ID NOS: 24
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 2
LENGTH: 158
TYPE: PRT
ORGANISM: Human Papillomavirus
US-09-980-523A-2

Query Match 100.0%; Score 52; DB 2; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.054;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PLCDLLIRC 9
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Db 102 PLCDLLIRC 110

RESULT 4

US-08-316-239B-3
; Sequence 3, Application US/08316239B
; Patent No. 5679509
; GENERAL INFORMATION:
; APPLICANT: Wheeler, Cosette M.
; APPLICANT: Parmenter, Cheryl A.
; TITLE OF INVENTION: Methods and a Diagnostic Aid for
; TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
; TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
; TITLE OF INVENTION: Cervical Cancer
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jagtiani & Associates
; STREET: 6126 Rocky Way Court
; CITY: Centreville
; STATE: VA
; COUNTRY: USA
; ZIP: 20120-3400
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/316,239B
; FILING DATE: 30-SEP-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jagtiani, Ajay A.
; REGISTRATION NUMBER: 35,205
; REFERENCE/DOCKET NUMBER: UNME-0001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 817-9453
; TELEFAX: (703) 803-9387
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 162 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
US-08-316-239B-3

Query Match 100.0%; Score 52; DB 1; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.056;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PLCDLLIRC 9
|||||||
Db 102 PLCDLLIRC 110

RESULT 5

US-08-316-239B-4
; Sequence 4, Application US/08316239B
; Patent No. 5679509
; GENERAL INFORMATION:
; APPLICANT: Wheeler, Cosette M.
; APPLICANT: Parmenter, Cheryl A.
; TITLE OF INVENTION: Methods and a Diagnostic Aid for
; TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
; TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and

TITLE OF INVENTION: Cervical Cancer
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jagtiani & Associates
; STREET: 6126 Rocky Way Court
; CITY: Centreville
; STATE: VA
; COUNTRY: USA
; ZIP: 20120-3400
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/316,239B
; FILING DATE: 30-SEP-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jagtiani, Ajay A.
; REGISTRATION NUMBER: 35,205
; REFERENCE/DOCKET NUMBER: UNME-0001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 817-9453
; TELEFAX: (703) 803-9387
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 162 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
US-08-316-239B-4

Query Match 100.0%; Score 52; DB 1; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.056;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PLCDLLIRC 9
|||||||
Db 102 PLCDLLIRC 110

RESULT 6

US-08-860-165-12
; Sequence 12, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PNO157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURES:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-12

Query Match 100.0%; Score 52; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.059;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PLCDLLIRC 9
|||||

Db 40 PLCDLLIRC 48

RESULT 7
US-09-359-382-12

; Sequence 12, Application US/09359382
; Patent No. 6306397

; GENERAL INFORMATION:

; APPLICANT: EDWARDS, Scirling John

; APPLICANT: COX, John Cooper

; APPLICANT: WEBB, Elizabeth Ann

; APPLICANT: FRAZER, Ian

; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS

; FILE REFERENCE: 017227/0148

; CURRENT APPLICATION NUMBER: US/09/359,382

; EARLIER FILING DATE: 1999-07-23

; EARLIER APPLICATION NUMBER: US 08/860,165

; EARLIER FILING DATE: 1997-09-22

; EARLIER APPLICATION NUMBER: PCT/AU95/00868

; EARLIER FILING DATE: 1995-12-20

; EARLIER APPLICATION NUMBER: AU PN0157/94

; NUMBER OF SEQ ID NOS: 27

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 12

; LENGTH: 172

; TYPE: PRT

; ORGANISM: Human papillomavirus type 16

US-09-359-382-12

Query Match 100.0%; Score 52; DB 2; Length 172;

Best Local Similarity 100.0%; Pred. No. 0.059;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PLCDLLIRC 9
|||||

Db 40 PLCDLLIRC 48

RESULT 8
US-09-462-993-1

; Sequence 1, Application US/09462993
; Patent No. 6884786

; GENERAL INFORMATION:

; APPLICANT: KIENY, Marie-Paule

; APPLICANT: BALLOU, Jean-Marie

; APPLICANT: BIZOUARNE, Nadine

; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC

; FILE REFERENCE: 017753-122

; CURRENT APPLICATION NUMBER: US/09/462,993

; CURRENT FILING DATE: 2000-04-17

; PRIOR APPLICATION NUMBER: PCT/FR98/01576

; PRIOR FILING DATE: 1998-07-17

; PRIOR APPLICATION NUMBER: FR 97/09152

; NUMBER OF SEQ ID NOS: 23

; SOFTWARE: PatentIn Ver. 2.2

; SEQ ID NO 1

; LENGTH: 243

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE: Description of Artificial Sequence: Derived from

; OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein

; OTHER INFORMATION: fused F protein signals, clone E6*TMF.

US-09-462-993-1

Query Match 100.0%; Score 52; DB 2; Length 243;

Best Local Similarity 100.0%; Pred. No. 0.084;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PLCDLLIRC 9
|||||

Db 130 PLCDLLIRC 138

RESULT 9

US-08-860-165-10

; Sequence 10, Application US/08860165A

; Patent No. 6004557

; GENERAL INFORMATION:

; APPLICANT: EDWARDS, Scirling John

; APPLICANT: COX, John Cooper

; APPLICANT: WEBB, Elizabeth Ann

; APPLICANT: FRAZER, Ian

; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS

; FILE REFERENCE: 17227/130

; CURRENT APPLICATION NUMBER: US/08/860,165A

; CURRENT FILING DATE: 1997-09-22

; EARLIER APPLICATION NUMBER: PCT/AU95/00868

; EARLIER FILING DATE: 1995-12-20

; EARLIER APPLICATION NUMBER: AU PN0157

; EARLIER FILING DATE: 1994-12-20

; NUMBER OF SEQ ID NOS: 15

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 10

; LENGTH: 266

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE: Description of Artificial Sequence: Gene Fusion

; OTHER INFORMATION: US-08-860-165-10

Query Match 100.0%; Score 52; DB 2; Length 266;

Best Local Similarity 100.0%; Pred. No. 0.092;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PLCDLLIRC 9
|||||

Db 102 PLCDLLIRC 110

RESULT 10
US-09-359-382-10

; Sequence 10, Application US/09359382
; Patent No. 6306397

; GENERAL INFORMATION:

; APPLICANT: EDWARDS, Scirling John

; APPLICANT: COX, John Cooper

; APPLICANT: WEBB, Elizabeth Ann

; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS

; FILE REFERENCE: 017227/0148

; CURRENT APPLICATION NUMBER: US/09/359,382

; CURRENT FILING DATE: 1999-07-23

; EARLIER APPLICATION NUMBER: US 08/860,165

; EARLIER FILING DATE: 1997-09-22

; EARLIER APPLICATION NUMBER: PCT/AU95/00868

; EARLIER FILING DATE: 1995-12-20

; EARLIER APPLICATION NUMBER: AU PN0157/94

; NUMBER OF SEQ ID NOS: 27

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 10

; LENGTH: 266

; TYPE: PRT

; ORGANISM: Human papillomavirus type 16

Query Match 100.0%; Score 52; DB 2; Length 266;

Best Local Similarity 100.0%; Pred. No. 0.092;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PLCDLLIRC 9
Db 102 PLCDLLIRC 110

RESULT 11
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428607
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; APPLICANT: MALIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A
; PRIOR FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 52; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.092;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PLCDLLIRC 9
Db 102 PLCDLLIRC 110

RESULT 12
US-09-485-885-4
; Sequence 4, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-4

Query Match 100.0%; Score 52; DB 2; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.095;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PLCDLLIRC 9
Db 208 PLCDLLIRC 216

RESULT 13
US-09-485-885-10
; Sequence 10, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-10

Query Match 100.0%; Score 52; DB 2; Length 292;
Best Local Similarity 100.0%; Pred. No. 0.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PLCDLLIRC 9
Db 227 PLCDLLIRC 235

RESULT 14
US-09-485-885-6
; Sequence 6, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-6

Query Match 100.0%; Score 52; DB 2; Length 371;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PLCDLLIRC 9
Db 208 PLCDLLIRC 216

RESULT 15
US-09-485-885-14

```
; Sequence 14, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapien
; US-09-485-885-14

Query Match      100.0%; Score 52; DB 2; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 PLCDLLIRC 9
        |||||
Db      227 PLCDLLIRC 235

RESULT 16
US-08-934-915-164
; Sequence 164, Application US/08934915
; Patent No. 5932412
; GENERAL INFORMATION:
; APPLICANT: DILLNER, JOAKIM
; APPLICANT: DILLNER, LENA
; APPLICANT: CHENG, HWEI-MING
; TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
; TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
; TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
; TITLE OF INVENTION: USEFUL IN IMMUNOSSAY FOR
; TITLE OF INVENTION: DIAGNOSTIC PURPOSES
; NUMBER OF SEQUENCES: 193
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MASON & ASSOCIATES, P.A.
; STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
; CITY: CLEARWATER
; STATE: FLORIDA
; COUNTRY: U.S.A.
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Windows 3.0
; SOFTWARE: Microsoft Word 6.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/934,915
; FILING DATE: 22-SEP-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/949,836
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: LOUISE A. Fouch
; REGISTRATION NUMBER: 37,133
; REFERENCE/DOCKET NUMBER: 1946.6
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 813-538-3800
; TELEFAX: 813-538-3820
; TELEX:
```

```
; INFORMATION FOR SEQ ID NO: 164:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-934-915-164

Query Match      90.4%; Score 47; DB 1; Length 20;
Best Local Similarity 88.9%; Pred. No. 0.051;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      1 PLCDLLIRC 9
        |||||
Db      11 PLCDLLIRC 19

RESULT 17
US-09-980-523A-8
; Sequence 8, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCES
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 AND E7
; TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
; FILE REFERENCE: WO81 AO INS
; CURRENT APPLICATION NUMBER: US/09/980,523A
; CURRENT FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: PCT/FR00/01513
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: FR 99/07012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 29
; TYPE: PRT
; ORGANISM: Human Papillomavirus
; US-09-980-523A-8

Query Match      73.1%; Score 38; DB 2; Length 29;
Best Local Similarity 100.0%; Pred. No. 3.1;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 PLCDLLI 7
        |||||
Db      23 PLCDLLI 29

RESULT 18
US-09-248-796A-20508
; Sequence 20508, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Ketch Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 20508
; LENGTH: 172
; TYPE: PRT
```

```
/ ORGANISM: Candida albicans
us-09-248-796A-20508

Query Match          69.2%; Score 36; DB 2; Length 172;
Best Local Similarity 50.0%; Pred. No. 43;
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 2 LCDLIRRC 9
DB 110 ICDLIRKC 117

RESULT 19
US-09-902-540-12017
; Sequence 12017, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 12017
; LENGTH: 343
; TYPE: PRT
; ORGANISM: Myxococcus xanthus
us-09-902-540-12017

Query Match          69.2%; Score 36; DB 2; Length 343;
Best Local Similarity 62.5%; Pred. No. 88;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 LCDLIRRC 9
DB 258 LCDLVVNC 265

RESULT 20
US-09-489-039A-13746
; Sequence 13746, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 13746
; LENGTH: 348
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
us-09-489-039A-13746

Query Match          67.3%; Score 35; DB 2; Length 348;
Best Local Similarity 66.7%; Pred. No. 1.3e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 PLCDLIRRC 9
DB 53 PLVQDLVRC 61

RESULT 21

/ ORGANISM: Homo sapiens
us-10-104-047-3074
; Sequence 3074, Application US/10104047
; Patent No. 6943241
; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: NO. 6943241el full length cDNA
; FILE REFERENCE: H1-A0105
; CURRENT APPLICATION NUMBER: US/10/104,047
; CURRENT FILING DATE: 2002-03-25
; PRIOR APPLICATION NUMBER:
; PRIOR FILING DATE:
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 3074
; LENGTH: 407
; TYPE: PRT
; ORGANISM: Homo sapiens
us-10-104-047-3074

Query Match          67.3%; Score 35; DB 2; Length 407;
Best Local Similarity 66.7%; Pred. No. 1.6e+02;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 PLCDLIRRC 9
DB 279 PTCUTLIRRC 287

RESULT 22
US-09-252-991A-31650
; Sequence 31650, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.116
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 31650
; LENGTH: 687
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
us-09-252-991A-31650

Query Match          67.3%; Score 35; DB 2; Length 687;
Best Local Similarity 62.5%; Pred. No. 2.7e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 PLCDLIRRC 8
DB 479 PICNMLVR 486

RESULT 23
US-09-574-749B-43
; Sequence 43, Application US/09574749B
; Patent No. 6548299
; GENERAL INFORMATION:
; APPLICANT: ROSENZWEIG, Michael
; APPLICANT: PYKETT, Mark J.
; APPLICANT: SCADEN, David T.
; APPLICANT: POZNANSKY, Mark C.
; TITLE OF INVENTION: LYMPHOID TISSUE-SPECIFIC CELL PRODUCTION
; TITLE OF INVENTION: FROM HEMATOPOIETIC PROGENITOR CELLS IN THREE-DIMENSIONAL
; FILE REFERENCE: C1005/7012/KA/ERG
; CURRENT APPLICATION NUMBER: US/09/574,749B
```

CURRENT FILING DATE: 2002-05-31
PRIOR APPLICATION NUMBER: US 60/107,972
PRIOR FILING DATE: 1998-11-12
PRIOR APPLICATION NUMBER: PCT/US99/26795
PRIOR FILING DATE: 1999-11-12
PRIOR APPLICATION NUMBER: US 09/524,749
PRIOR FILING DATE: 2000-05-18
NUMBER OF SEQ ID NOS: 58
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 43
LENGTH: 10
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Papilloma source
US-09-574-749B-43

Query Match 65.4%; Score 34; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PLCDLL 6
|||
Db 5 PLCDLL 10

RESULT 24
US-09-270-767-33183
Sequence 33183, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 33183
LENGTH: 104
TYPE: PRT
ORGANISM: Drosophila melanogaster
US-09-270-767-33183

Query Match 65.4%; Score 34; DB 2; Length 104;
Best Local Similarity 66.7%; Pred. No. 59;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 PLCDLLRC 9
|||
Db 16 PLCDLLRC 24

RESULT 25
US-09-270-767-48400
Sequence 48400, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 48400
LENGTH: 104
TYPE: PRT
ORGANISM: Drosophila melanogaster
US-09-270-767-48400

Query Match 65.4%; Score 34; DB 2; Length 104;
Best Local Similarity 66.7%; Pred. No. 59;

Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 1 PLCDLLRC 9
|||
Db 16 PLCDLLRC 24

RESULT 26
US-09-270-767-34129
Sequence 34129, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 34129
LENGTH: 109
TYPE: PRT
ORGANISM: Drosophila melanogaster
FEATURE:
OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-34129

Query Match 65.4%; Score 34; DB 2; Length 109;
Best Local Similarity 100.0%; Pred. No. 62;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PLCDLL 6
|||
Db 36 PLCDLL 41

RESULT 27
US-09-270-767-49346
Sequence 49346, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 49346
LENGTH: 109
TYPE: PRT
ORGANISM: Drosophila melanogaster
FEATURE:
OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-49346

Query Match 65.4%; Score 34; DB 2; Length 109;
Best Local Similarity 100.0%; Pred. No. 62;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PLCDLL 6
|||
Db 36 PLCDLL 41

RESULT 28
US-09-640-211A-1032
Sequence 1032, Application US/09640211A
Patent No. 6833446
GENERAL INFORMATION:
APPLICANT: Wood, Marion
APPLICANT: Shenk, Michael A.
APPLICANT: McGrath, Annette

```

; APPLICANT: Glenn, Matthew
; TITLE OF INVENTION: Compositions and Methods for the
; TITLE OF INVENTION: Modification of Gene Transcription
; FILE REFERENCE: 11000.1021CIU
; CURRENT APPLICATION NUMBER: US/09/640,211A
; NUMBER OF SEQ ID NOS: 2368
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1032
; LENGTH: 146
; TYPE: PRT
; ORGANISM: Pinus radiata
; US-09-640-211A-1032

Query Match          65.4%; Score 34; DB 2; Length 146;
Best Local Similarity 75.0%; Pred. No. 84;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 LCDLLIRC 9
        ||:|||
Db      68 LCELLPRC 75

RESULT 29
US-09-228-986-113
; Sequence 113, Application US/09228986
; Patent No. 6359198
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Neuenhuizen, Niels
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signalling
; FILE REFERENCE: 11000/1020
; CURRENT APPLICATION NUMBER: US/09/228,986
; CURRENT FILING DATE: 1999-01-12
; NUMBER OF SEQ ID NOS: 130
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 113
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Pinus radiata
; US-09-228-986-113

Query Match          65.4%; Score 34; DB 2; Length 166;
Best Local Similarity 75.0%; Pred. No. 95;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 LCDLLIRC 9
        ||:|||
Db      68 LCELLPRC 75

RESULT 30
US-10-101-464A-113
; Sequence 113, Application US/10101464A
; Patent No. 6768041
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Neuenhuizen, Nicolaas
; APPLICANT: Hising, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signalling
; FILE REFERENCE: 11000.1020C2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
```

```

; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 113
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Pinus radiata
; US-10-101-464A-113

Query Match          65.4%; Score 34; DB 2; Length 166;
Best Local Similarity 75.0%; Pred. No. 95;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 LCDLLIRC 9
        ||:|||
Db      68 LCELLPRC 75

RESULT 31
US-09-498-520A-18
; Sequence 18, Application US/09498520A
; Patent No. 661353
; GENERAL INFORMATION:
; APPLICANT: Rock, Charles O
; APPLICANT: Heath, Richard J
; TITLE OF INVENTION: No. 661353a1 Enoyl Reductases and Methods of Use Thereof
; FILE REFERENCE: SJ-0022
; CURRENT APPLICATION NUMBER: US/09/498,520A
; CURRENT FILING DATE: 2000-02-04
; NUMBER OF SEQ ID NOS: 62
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
; LENGTH: 321
; TYPE: PRT
; ORGANISM: Caulobacter crescentus
; US-09-498-520A-18

Query Match          65.4%; Score 34; DB 2; Length 321;
Best Local Similarity 100.0%; Pred. No. 1.9e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 PLCDLL 6
        |||||
Db      6 PLCDLL 11

RESULT 32
US-08-246-583-2
; Sequence 2, Application US/08246583
; Patent No. 5750394
; GENERAL INFORMATION:
; APPLICANT: Palese, Peter
; APPLICANT: O'Neill, Robert
; TITLE OF INVENTION: IDENTIFICATION AND USE OF ANTIVIRAL
; TITLE OF INVENTION: COMPOUNDS THAT INHIBIT INTERACTION OF HOST CELL PROTEINS
; TITLE OF INVENTION: AND VIRAL PROTEINS REQUIRED FOR VIRAL REPLICATION
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PENNIE & EDMONDS
; STREET: 1155 AVENUE OF THE AMERICAS
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: U.S.A.
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/246,583
; FILING DATE: 20-MAY-1994
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
```

NAME: Coruzzi, Laura A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 6923-040
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 790-9090
TELEFAX: (212) 869-8864/9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 527 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-246-583-2

Query Match 65.4%; Score 34; DB 1; Length 527;
Best Local Similarity 100.0%; Pred. No. 3.1e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 PLCDLL 6
|||||
Db 426 PLCDLL 431

RESULT 33
US-09-949-016-7509
Sequence 7509, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CLO01307
CURRENT APPLICATION NUMBER: US/09/949,016
PRIOR FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 7509
LENGTH: 537
TYPE: PRT
ORGANISM: Human
US-09-949-016-7509

Query Match 65.4%; Score 34; DB 2; Length 537;
Best Local Similarity 100.0%; Pred. No. 3.2e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 PLCDLL 6
|||||
Db 426 PLCDLL 431

RESULT 34
US-08-933-227-5
Sequence 5, Application US/08933227
Patent No. 5965394
GENERAL INFORMATION:
APPLICANT: Bandman, Olga
APPLICANT: Guegler, Karl
APPLICANT: Corley, Neil
APPLICANT: Shah, Purvi
TITLE OF INVENTION: HUMAN IMPORTIN ALPHA HOMOLOG
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Dr.
CITY: Palo Alto

STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/933,227
FILING DATE: Filed Herewith
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0394 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-855-0555
TELEFAX: 650-845-4166
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 538 amino acids
TYPE: amino acid
STRANDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: Genbank
CLONE: 1708483
US-08-933-227-5

Query Match 65.4%; Score 34; DB 1; Length 538;
Best Local Similarity 100.0%; Pred. No. 3.2e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 PLCDLL 6
|||||
Db 427 PLCDLL 432

RESULT 35
US-09-636-791A-4
Sequence 4, Application US/09636791A
Patent No. 6503703
GENERAL INFORMATION:
APPLICANT: Palese et al
TITLE OF INVENTION: IDENTIFICATION AND USE OF ANTIVIRAL COMPOUNDS THAT
TITLE OF INVENTION: INHIBIT INTERACTION OF HOST CELL PROTEINS AND VIRAL
FILE REFERENCE: 6923-077-999
CURRENT APPLICATION NUMBER: US/09/636,791A
PRIOR FILING DATE: 2000-08-11
PRIOR APPLICATION NUMBER: 60/148,263
PRIOR FILING DATE: 1999-08-11
NUMBER OF SEQ ID NOS: 42
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 4
LENGTH: 538
TYPE: PRT
ORGANISM: Homo sapiens
US-09-636-791A-4

Query Match 65.4%; Score 34; DB 2; Length 538;
Best Local Similarity 100.0%; Pred. No. 3.2e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 PLCDLL 6
|||||
Db 427 PLCDLL 432

RESULT 36

US-09-538-092-1186
; Sequence 1186, Application US/09538092
; Patent No. 6753314
; GENERAL INFORMATION:
; APPLICANT: Giot, Loic
; TITLE OF INVENTION: Protein-Protein Complexes and Method of Using Same
; FILE REFERENCE: 15966-542
; CURRENT APPLICATION NUMBER: US/09/538,092
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: 60/127,352
; PRIOR FILING DATE: 1999-04-01
; PRIOR APPLICATION NUMBER: 60/178,965
; NUMBER OF SEQ ID NOS: 1387
; SOFTWARE: CuratSeqFormatter Version 0.9
; SEQ ID NO 1186
; LENGTH: 538
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (0)-(0)
; OTHER INFORMATION: Polypeptide Accession Number P52294
US-09-538-092-1186
Query Match 65.4%; Score 34; DB 2; Length 538;
Best Local Similarity 100.0%; Pred. No. 3.2e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 PLCDLL 6
Db 427 PLCDLL 432
RESULT 37
US-08-444-994-11
; Sequence 11, Application US/08444994
; Patent No. 6890710
; GENERAL INFORMATION:
; APPLICANT: Palese, Peter
; APPLICANT: O'Neill, Robert
; TITLE OF INVENTION: IDENTIFICATION AND USE OF ANTIVIRAL
; TITLE OF INVENTION: COMPOUNDS THAT INHIBIT INTERACTION OF HOST CELL PROTEINS
; TITLE OF INVENTION: AND VIRAL PROTEINS REQUIRED FOR VIRAL REPLICATION
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/444,994
; FILING DATE: 19-MAY-1995
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Cortuzzi, Laura A.
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 6923-054
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 790-9090
; TELEFAX: (212) 869-9741/8864
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 538 amino acids

;; TYPE: amino acid
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
US-08-444-994-11
Query Match 65.4%; Score 34; DB 2; Length 538;
Best Local Similarity 100.0%; Pred. No. 3.2e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 PLCDLL 6
Db 427 PLCDLL 432
RESULT 38
US-09-949-016-8190
; Sequence 8190, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8190
; LENGTH: 540
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-8190
Query Match 65.4%; Score 34; DB 2; Length 540;
Best Local Similarity 100.0%; Pred. No. 3.2e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 PLCDLL 6
Db 429 PLCDLL 434

RESULT 39
US-08-246-583-3
; Sequence 3, Application US/08246583
; Patent No. 5750394
; GENERAL INFORMATION:
; APPLICANT: Palese, Peter
; APPLICANT: O'Neill, Robert
; TITLE OF INVENTION: IDENTIFICATION AND USE OF ANTIVIRAL
; TITLE OF INVENTION: COMPOUNDS THAT INHIBIT INTERACTION OF HOST CELL PROTEINS
; TITLE OF INVENTION: AND VIRAL PROTEINS REQUIRED FOR VIRAL REPLICATION
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PENNIE & EDMONDS
; STREET: 1155 AVENUE OF THE AMERICAS
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: U.S.A.
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/246,583

FILING DATE: 20-MAY-1994
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 6923-040
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 790-9090
TELEFAX: (212) 869-8864/9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 542 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-08-246-563-3

Query Match 65.4%; Score 34; DB 1; Length 542;
Best Local Similarity 100.0%; Pred. No. 3.2e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PLCDL 6
Db 432 PLCDL 437

RESULT 40
US-09-636-791A-5
Sequence 5, Application US/09636791A
Patent No. 6503703
GENERAL INFORMATION:
APPLICANT: Palese et al
TITLE OF INVENTION: IDENTIFICATION AND USE OF ANTIVIRAL COMPOUNDS THAT
TITLE OF INVENTION: INHIBIT INTERACTION OF HOST CELL PROTEINS AND VIRAL
TITLE OF INVENTION: PROTEIN REQUIRED FOR VIRAL REPLICATION
FILE REFERENCE: 6923-077-999
CURRENT APPLICATION NUMBER: US/09/636,791A
CURRENT FILING DATE: 2000-08-11
PRIOR APPLICATION NUMBER: 60/148,263
PRIOR FILING DATE: 1999-08-11
NUMBER OF SEQ ID NOS: 42
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 5
LENGTH: 542
TYPE: PRP
ORGANISM: Saccharomyces cerevisiae
US-09-636-791A-5

Query Match 65.4%; Score 34; DB 2; Length 542;
Best Local Similarity 100.0%; Pred. No. 3.2e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PLCDL 6
Db 432 PLCDL 437

RESULT 41
US-09-538-092-672
Sequence 672, Application US/09538092
Patent No. 675314
GENERAL INFORMATION:
APPLICANT: Glac, Loic
TITLE OF INVENTION: Protein-Protein Complexes and Method of Using Same
FILE REFERENCE: 15966-542
CURRENT FILING DATE: 2000-03-29
PRIOR APPLICATION NUMBER: 60/127,352
PRIOR FILING DATE: 1999-04-01
PRIOR APPLICATION NUMBER: 60/178,965

PRIOR FILING DATE: 2000-02-01
NUMBER OF SEQ ID NOS: 1387
SOFTWARE: CuratSeqFormatter Version 0.9
SEQ ID NO 672
LENGTH: 542
TYPE: PRP
ORGANISM: Saccharomyces cerevisiae
FEATURE:
NAME/KEY: misc_feature
LOCATION: (0)...(0)
OTHER INFORMATION: Polypeptide Accession Number YML189W
US-09-538-092-672

Query Match 65.4%; Score 34; DB 2; Length 542;
Best Local Similarity 100.0%; Pred. No. 3.2e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PLCDL 6
Db 432 PLCDL 437

RESULT 42
US-08-444-994-12
Sequence 12, Application US/08444994
Patent No. 6890710
GENERAL INFORMATION:
APPLICANT: Palese, Peter
APPLICANT: O'Neill, Robert
TITLE OF INVENTION: IDENTIFICATION AND USE OF ANTIVIRAL
TITLE OF INVENTION: COMPOUNDS THAT INHIBIT INTERACTION OF HOST CELL PROTEINS
TITLE OF INVENTION: AND VIRAL PROTEINS REQUIRED FOR VIRAL REPLICATION
NUMBER OF SEQUENCES: 20
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/444,994
FILING DATE: 19-MAY-1995
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 6923-054
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 790-9090
TELEFAX: (212) 869-9741/8864
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 542 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-08-444-994-12

Query Match 65.4%; Score 34; DB 2; Length 542;
Best Local Similarity 100.0%; Pred. No. 3.2e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PLCDL 6
Db 432 PLCDL 437


```

RESULT 43
US-09-248-796A-19179
; Sequence 19179, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstein et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 19179
; LENGTH: 556
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-19179

Query Match      65.4%; Score 34; DB 2; Length 556;
Best Local Similarity 100.0%; Pred. No. 3.3e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 PLCDLL 6
DB      443 PLCDLL 448

RESULT 44
US-10-104-047-2810
; Sequence 2810, Application US/10104047
; Patent No. 6943241
; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: No. 6943241el full length cDNA
; FILE REFERENCE: HI-A0105
; CURRENT APPLICATION NUMBER: US/10/104,047
; CURRENT FILING DATE: 2002-03-25
; PRIOR APPLICATION NUMBER:
; PRIOR FILING DATE:
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2810
; LENGTH: 795
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-104-047-2810

Query Match      65.4%; Score 34; DB 2; Length 795;
Best Local Similarity 85.7%; Pred. No. 4.7e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      2 LCDLLIR 8
DB      313 LCDLLIR 319

RESULT 45
US-09-489-039A-12083
; Sequence 12083, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27

```

```

; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 12083
; LENGTH: 81
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-12083

Query Match      63.5%; Score 33; DB 2; Length 81;
Best Local Similarity 62.5%; Pred. No. 69;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 PLCDLLIR 8
DB      5 PSCDWLIR 12

RESULT 46
US-09-513-999C-4376
; Sequence 4376, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; FILE REFERENCE: 59. US2. REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent .pm
; SEQ ID NO 4376
; LENGTH: 120
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -19...-1
; OTHER INFORMATION: score 7.6
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 89
; OTHER INFORMATION: Xaa=Ile or Met
US-09-513-999C-4376

Query Match      63.5%; Score 33; DB 2; Length 120;
Best Local Similarity 62.5%; Pred. No. 1e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      2 LCDLLIRC 9
DB      16 LCDALLVRC 23

RESULT 47
US-09-270-767-35225
; Sequence 35225, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 35225
; LENGTH: 155

```

```

; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-35225

Query Match
Best Local Similarity 63.5%; Score 33; DB 2; Length 155;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 2 LCDLIRC 9
Db 121 LCKLIREC 128

RESULT 48
US-09-270-767-50442
; Sequence 50442, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 50442
; LENGTH: 155
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-50442

Query Match
Best Local Similarity 63.5%; Score 33; DB 2; Length 155;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 2 LCDLIRC 9
Db 121 LCKLIREC 128

RESULT 49
US-09-902-540-12712
; Sequence 12712, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 12712
; LENGTH: 293
; TYPE: PRT
; ORGANISM: Myxococcus xanthus
US-09-902-540-12712

Query Match
Best Local Similarity 63.5%; Score 33; DB 2; Length 293;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY 2 LCDLIRC 9
Db 272 ICDTLARC 279
```

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RESULT 50
US-09-489-039A-13053
; Sequence 13053, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; FILE REFERENCE: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
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; SEQ ID NO 13053
; LENGTH: 313
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-13053

Query Match
Best Local Similarity 63.5%; Score 33; DB 2; Length 313;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 3 CDLIRC 9
Db 54 CEPLIRC 60
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Search completed: May 5, 2006, 01:38:13
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OW protein - protein search, using SW model

Run on: May 5, 2006, 07:10:32 ; Search time 68.2 Seconds
(without alignments)
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Title: US-08-170-344-12
Perfect score: 52
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Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues
Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 200000000

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Database : Published Applications_AA_Main:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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5	52	100.0	20	5	US-10-484-063-8
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7	52	100.0	151	4	US-10-177-390-6
8	52	100.0	151	5	US-10-484-063-20
9	52	100.0	151	5	US-10-484-063-27
10	52	100.0	158	5	US-10-858-384-2
11	52	100.0	158	5	US-10-367-057-16
12	52	100.0	158	6	US-11-021-949-13
13	52	100.0	171	4	US-10-472-724-2
14	52	100.0	243	6	US-11-072-288-1
15	52	100.0	266	3	US-09-367-309A-1
16	52	100.0	273	4	US-10-000-903-4
17	52	100.0	273	5	US-10-899-771-14
18	52	100.0	292	4	US-10-000-903-10
19	52	100.0	292	5	US-10-899-771-10
20	52	100.0	371	4	US-10-000-903-6
21	52	100.0	371	5	US-10-899-771-6
22	52	100.0	390	4	US-10-000-903-14
23	52	100.0	390	5	US-10-899-771-14
24	45	86.5	100	4	US-10-424-599-248671
25	45	86.5	155	6	US-11-021-949-22
26	43	82.7	149	6	US-11-021-949-18
27	42	80.8	644	5	US-10-450-763-31975

28	40	76.9	150	6	US-11-021-949-27	Sequence 27, App1
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31	39	75.0	190	5	US-10-733-923-12468	Sequence 12468, A
32	39	75.0	190	5	US-10-733-923-12757	Sequence 12757, A
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34	39	75.0	390	5	US-10-485-710-94	Sequence 94, App1
35	39	75.0	402	5	US-10-485-710-21	Sequence 21, App1
36	39	75.0	402	5	US-10-485-710-53	Sequence 53, App1
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38	38	73.1	29	5	US-10-858-384-8	Sequence 8, App1
39	38	73.1	55	4	US-10-425-115-269200	Sequence 269200, A
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41	38	73.1	148	6	US-11-021-949-359	Sequence 359, App
42	38	73.1	149	6	US-11-021-949-14	Sequence 14, App1
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61	37	71.2	327	4	US-10-767-701-44503	Sequence 44503, A
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79	36	69.2	441	4	US-10-767-701-44640	Sequence 44640, A
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83	35	67.3	55	4	US-10-425-115-291385	Sequence 291385, A
84	35	67.3	64	4	US-10-863-332-251	Sequence 251, App
85	35	67.3	72	4	US-10-424-599-157951	Sequence 157951, A
86	35	67.3	115	4	US-10-437-963-135512	Sequence 135512, A
87	35	67.3	149	4	US-10-424-599-229127	Sequence 229127, A
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92	35	67.3	400	4	US-10-017-161-2290	Sequence 2290, App
93	35	67.3	400	4	US-10-292-798-1936	Sequence 1936, App
94	35	67.3	407	4	US-10-104-047-3074	Sequence 3074, App
95	35	67.3	463	5	US-10-450-763-58528	Sequence 58528, A
96	35	67.3	692	4	US-10-437-963-111737	Sequence 111737, A
97	35	67.3	925	4	US-10-112-944-842	Sequence 842, App
98	35	67.3	925	5	US-10-450-763-43015	Sequence 43015, A
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115	34	65.4	153	6	US-11-021-949-20	Sequence 20, Appl	188	33	63.5	302	4	US-10-146-772-362	Sequence 362, App
116	34	65.4	160	4	US-10-425-114-66322	Sequence 66322, A	189	33	63.5	302	4	US-10-241-742-362	Sequence 362, App
117	34	65.4	166	4	US-10-101-4644A-113	Sequence 113, App	190	33	63.5	302	4	US-10-440-523-362	Sequence 362, App
118	34	65.4	166	5	US-10-864-252-113	Sequence 113, App	191	33	63.5	302	4	US-10-440-503-362	Sequence 362, App
119	34	65.4	168	4	US-10-437-963-139698	Sequence 139698,	192	33	63.5	302	4	US-10-461-925-362	Sequence 362, App
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138	34	65.4	542	4	US-10-369-493-1960	Sequence 1960, Ap	211	33	63.5	887	5	US-10-149-310-442	Sequence 242, App
139	34	65.4	543	4	US-10-724-273-12	Sequence 12, Appl	212	33	63.5	982	4	US-10-450-763-31953	Sequence 31953, A
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142	34	65.4	552	4	US-10-128-714-8541	Sequence 8541, Ap	215	33	63.5	1132	4	US-10-437-963-173378	Sequence 173378,
143	34	65.4	576	4	US-10-369-493-10008	Sequence 10008, A	216	33	63.5	1136	5	US-10-450-763-44700	Sequence 44700, A
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149	34	65.4	813	4	US-10-144-194A-60	Sequence 60, Appl	222	33	63.5	1886	5	US-10-450-763-36368	Sequence 36368, A
150	34	65.4	813	5	US-10-491-566-60	Sequence 60, Appl	223	33	63.5	1924	5	US-10-450-763-36367	Sequence 36367, A
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153	34	65.4	1161	4	US-10-292-798-2040	Sequence 2040, Ap	226	33	63.5	5405	4	US-10-025-380-1116	Sequence 1116, Ap
154	34	65.4	1352	6	US-11-097-143-29418	Sequence 29418, A	227	33	63.5	5405	5	US-10-723-860-1647	Sequence 1647, Ap
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251	32	61.5	97	5	US-10-450-763-40344,	Sequence 40344, A	324	32	61.5	190	5	US-10-732-923-12528	Sequence 12528, A
252	32	61.5	100	4	US-10-424-599-181431,	Sequence 181431,	325	32	61.5	190	5	US-10-732-923-12619	Sequence 12619, A
253	32	61.5	102	4	US-10-424-599-262146	Sequence 262146,	326	32	61.5	190	5	US-10-732-923-12642	Sequence 12642, A
254	32	61.5	102	4	US-10-425-115-218631,	Sequence 218631,	327	32	61.5	190	5	US-10-732-923-12655	Sequence 12655, A
255	32	61.5	110	4	US-10-425-115-259570	Sequence 259570, A	328	32	61.5	190	5	US-10-732-923-12699	Sequence 12699, A
256	32	61.5	117	4	US-10-425-115-248340	Sequence 248340,	329	32	61.5	190	5	US-10-732-923-12706	Sequence 12706, A
257	32	61.5	118	4	US-10-437-963-154875	Sequence 154875,	330	32	61.5	190	5	US-10-732-923-12707	Sequence 12707, A
258	32	61.5	126	4	US-10-767-701-41947	Sequence 41947, A	331	32	61.5	190	5	US-10-732-923-12707	Sequence 12707, A
259	32	61.5	129	4	US-10-425-114-56575	Sequence 56575, A	332	32	61.5	190	5	US-10-732-923-12743	Sequence 12743, A
260	32	61.5	135	4	US-10-767-701-35214	Sequence 35214, A	333	32	61.5	191	5	US-10-732-923-12473	Sequence 12473, A
261	32	61.5	135	4	US-10-732-923-12674	Sequence 12674, A	334	32	61.5	191	5	US-10-732-923-12527	Sequence 12527, A
262	32	61.5	142	5	US-10-732-923-12731	Sequence 12731, A	335	32	61.5	191	5	US-10-732-923-12530	Sequence 12531, A
263	32	61.5	144	4	US-10-425-115-312434	Sequence 312434,	336	32	61.5	191	5	US-10-732-923-12531	Sequence 12531, A
264	32	61.5	146	4	US-10-732-923-12683	Sequence 12683, A	337	32	61.5	191	5	US-10-732-923-12705	Sequence 12705, A
265	32	61.5	153	5	US-10-732-923-12623	Sequence 12623, A	338	32	61.5	191	5	US-10-732-923-12728	Sequence 12728, A
266	32	61.5	154	4	US-10-425-115-246759	Sequence 246759,	339	32	61.5	191	5	US-10-732-923-12760	Sequence 12760, A
267	32	61.5	160	4	US-10-078-090-118	Sequence 118, App	340	32	61.5	191	5	US-10-732-923-12760	Sequence 12760, A
268	32	61.5	161	5	US-10-732-923-12621	Sequence 12621, A	341	32	61.5	192	5	US-10-732-923-12045	Sequence 12048, A
269	32	61.5	165	4	US-10-425-115-335521	Sequence 335521,	342	32	61.5	192	5	US-10-732-923-12164	Sequence 12164, A
270	32	61.5	167	4	US-10-104-047-2077	Sequence 2077, App	343	32	61.5	192	5	US-10-732-923-12278	Sequence 12278, A
271	32	61.5	176	5	US-10-732-923-12640	Sequence 12640, A	344	32	61.5	192	5	US-10-732-923-12363	Sequence 12363, A
272	32	61.5	180	5	US-10-732-923-12740	Sequence 12740, A	345	32	61.5	192	5	US-10-732-923-12394	Sequence 12394, A
273	32	61.5	181	5	US-10-732-923-12165	Sequence 12165, A	346	32	61.5	192	5	US-10-732-923-12402	Sequence 12402, A
274	32	61.5	181	5	US-10-732-923-12404	Sequence 12404, A	347	32	61.5	192	5	US-10-732-923-12408	Sequence 12408, A
275	32	61.5	181	5	US-10-732-923-12409	Sequence 12409, A	348	32	61.5	192	5	US-10-732-923-12411	Sequence 12411, A
276	32	61.5	181	5	US-10-732-923-12412	Sequence 12412, A	349	32	61.5	192	5	US-10-732-923-12413	Sequence 12413, A
277	32	61.5	181	5	US-10-732-923-12697	Sequence 12697, A	350	32	61.5	192	5	US-10-732-923-12415	Sequence 12415, A
278	32	61.5	184	5	US-10-732-923-12633	Sequence 12633, A	351	32	61.5	192	5	US-10-732-923-12436	Sequence 12436, A
279	32	61.5	185	4	US-10-425-115-223103	Sequence 223103,	352	32	61.5	192	5	US-10-732-923-12440	Sequence 12440, A
280	32	61.5	185	5	US-10-732-923-9425	Sequence 9425, App	353	32	61.5	192	5	US-10-732-923-12443	Sequence 12443, A
281	32	61.5	185	5	US-10-732-923-12616	Sequence 12616, A	354	32	61.5	192	5	US-10-732-923-12443	Sequence 12443, A
282	32	61.5	186	5	US-10-732-923-12726	Sequence 12726, A	355	32	61.5	192	5	US-10-732-923-12532	Sequence 12532, A
283	32	61.5	187	5	US-10-732-923-12050	Sequence 12050, A	356	32	61.5	192	5	US-10-732-923-12614	Sequence 12614, A
284	32	61.5	187	5	US-10-732-923-12362	Sequence 12362, A	357	32	61.5	192	5	US-10-732-923-12614	Sequence 12614, A
285	32	61.5	187	5	US-10-732-923-12382	Sequence 12382, A	358	32	61.5	192	5	US-10-732-923-12696	Sequence 12696, A
286	32	61.5	187	5	US-10-732-923-12385	Sequence 12385, A	359	32	61.5	192	5	US-10-732-923-12704	Sequence 12704, A
287	32	61.5	187	5	US-10-732-923-12395	Sequence 12395, A	360	32	61.5	192	5	US-10-732-923-12710	Sequence 12710, A
288	32	61.5	187	5	US-10-732-923-12396	Sequence 12396, A	361	32	61.5	192	5	US-10-732-923-12713	Sequence 12713, A
289	32	61.5	187	5	US-10-732-923-12406	Sequence 12406, A	362	32	61.5	192	5	US-10-732-923-12752	Sequence 12752, A
290	32	61.5	187	5	US-10-732-923-12410	Sequence 12410, A	363	32	61.5	192	5	US-10-732-923-12759	Sequence 12759, A
291	32	61.5	187	5	US-10-732-923-12416	Sequence 12416, A	364	32	61.5	192	5	US-10-732-923-12816	Sequence 12816, A
292	32	61.5	187	5	US-10-732-923-12639	Sequence 12639, A	365	32	61.5	193	5	US-10-732-923-12816	Sequence 12816, A
293	32	61.5	188	5	US-10-732-923-12052	Sequence 12052, A	366	32	61.5	193	5	US-10-732-923-12816	Sequence 12816, A
294	32	61.5	188	5	US-10-732-923-12146	Sequence 12146, A	367	32	61.5	193	5	US-10-732-923-12813	Sequence 12813, A
295	32	61.5	188	5	US-10-732-923-12442	Sequence 12442, A	368	32	61.5	193	5	US-10-732-923-12829	Sequence 12829, A
296	32	61.5	188	5	US-10-732-923-12665	Sequence 12665, A	369	32	61.5	193	5	US-10-732-923-12860	Sequence 12860, A
297	32	61.5	188	5	US-10-732-923-12698	Sequence 12698, A	370	32	61.5	193	5	US-10-732-923-12722	Sequence 12722, A
298	32	61.5	188	5	US-10-732-923-12700	Sequence 12700, A	371	32	61.5	193	5	US-10-732-923-12752	Sequence 12752, A
299	32	61.5	188	5	US-10-732-923-12709	Sequence 12709, A	372	32	61.5	194	5	US-10-732-923-12612	Sequence 12612, A
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301	32	61.5	189	4	US-10-425-114-69566	Sequence 69566, A	374	32	61.5	194	5	US-10-732-923-12839	Sequence 12839, A
302	32	61.5	189	4	US-10-767-701-44552	Sequence 44552, A	375	32	61.5	195	5	US-10-732-923-12815	Sequence 12815, A
303	32	61.5	189	4	US-10-732-923-12046	Sequence 12046, A	376	32	61.5	195	5	US-10-732-923-12675	Sequence 12675, A
304	32	61.5	189	5	US-10-732-923-12047	Sequence 12047, A	377	32	61.5	195	5	US-10-732-923-12695	Sequence 12695, A
305	32	61.5	189	5	US-10-732-923-12049	Sequence 12049, A	378	32	61.5	195	5	US-10-732-923-12785	Sequence 12785, A
306	32	61.5	189	5	US-10-732-923-12166	Sequence 12166, A	379	32	61.5	195	5	US-10-732-923-12785	Sequence 12785, A
307	32	61.5	189	5	US-10-732-923-12364	Sequence 12364, A	380	32	61.5	196	5	US-10-732-923-12741	Sequence 12741, A
308	32	61.5	189	5	US-10-732-923-12386	Sequence 12386, A	381	32	61.5	196	5	US-10-732-923-12741	Sequence 12741, A
309	32	61.5	189	5	US-10-732-923-12414	Sequence 12414, A	382	32	61.5	197	4	US-10-425-114-59907	Sequence 59907, A
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311	32	61.5	189	5	US-10-732-923-12441	Sequence 12441, A	384	32	61.5	198	5	US-10-732-923-12586	Sequence 12586, A
312	32	61.5	190	4	US-10-425-115-324485	Sequence 324485,	385	32	61.5	198	5	US-10-732-923-12606	Sequence 12606, A
313	32	61.5	190	4	US-10-732-923-12051	Sequence 12051, A	386	32	61.5	200	4	US-10-425-114-56936	Sequence 56936, A
314	32	61.5	190	5	US-10-732-923-12053	Sequence 12053, A	387	32	61.5	200	4	US-10-732-923-12635	Sequence 12635, A
315	32	61.5	190	5	US-10-732-923-12054	Sequence 12054, A	388	32	61.5	205	5	US-10-732-923-12141	Sequence 12141, A
316	32	61.5	190	5	US-10-732-923-12179	Sequence 12179, A	389	32	61.5	205	5	US-10-732-923-12179	Sequence 12179, A
317	32	61.5	190	5	US-10-732-923-12180	Sequence 12180, A	390	32	61.5	206	5	US-10-732-923-12140	Sequence 12140, A
318	32	61.5	190	5	US-10-732-923-12181	Sequence 12181, A	391	32	61.5	206	5	US-10-732-923-12388	Sequence 12388, A
319	32	61.5	190	5	US-10-732-923-12182	Sequence 12182, A	392	32	61.5	214	4	US-10-437-963-171404	Sequence 171404,

393	61.5	222	4	US-10-425-114-51912	Sequence 51912, A	466	32	61.5	309	5	US-10-732-923-12119	Sequence 12119, A
394	61.5	226	4	US-10-282-122A-60120	Sequence 60120, A	467	32	61.5	311	4	US-10-236-699-9	Sequence 3, Appl1
395	61.5	227	4	US-10-425-115-228493	Sequence 228493, A	468	32	61.5	311	4	US-10-424-559-16685	Sequence 16685
396	61.5	227	4	US-10-425-115-333768	Sequence 333768, A	469	32	61.5	312	4	US-10-425-114-72606	Sequence 72606, A
397	61.5	228	6	US-11-097-143-1182	Sequence 1182, Ap	470	32	61.5	313	4	US-10-236-699-18	Sequence 18, Appl1
398	61.5	230	4	US-10-425-115-338929	Sequence 338929, A	471	32	61.5	313	4	US-10-311-764-5	Sequence 5, Appl1
399	61.5	231	4	US-10-437-963-106077	Sequence 106077, A	472	32	61.5	313	4	US-10-425-115-206995	Sequence 206995, A
400	61.5	232	4	US-10-425-115-200387	Sequence 200387, A	473	32	61.5	313	6	US-11-097-143-15735	Sequence 15735, A
401	61.5	235	4	US-10-425-114-60323	Sequence 60323, A	474	32	61.5	314	4	US-10-236-699-24	Sequence 24, Appl1
402	61.5	235	4	US-10-425-114-289537	Sequence 289537, A	475	32	61.5	314	4	US-10-424-559-19115	Sequence 19115, A
403	61.5	239	4	US-10-425-114-70693	Sequence 70693, A	476	32	61.5	314	5	US-10-732-923-12914	Sequence 12914, A
404	61.5	245	5	US-10-732-923-12084	Sequence 12084, A	477	32	61.5	318	4	US-10-369-493-6189	Sequence 6189, Ap
405	61.5	245	5	US-10-732-923-12085	Sequence 12085, A	478	32	61.5	321	4	US-10-369-493-5904	Sequence 5904, Ap
406	61.5	245	5	US-10-732-923-12093	Sequence 12093, A	479	32	61.5	322	4	US-10-437-963-17319	Sequence 17319, A
407	61.5	245	5	US-10-732-923-12094	Sequence 12094, A	480	32	61.5	323	5	US-10-732-923-12800	Sequence 12800, A
408	61.5	245	5	US-10-732-923-12094	Sequence 12094, A	481	32	61.5	327	4	US-10-425-114-56755	Sequence 56755, A
409	61.5	245	5	US-10-732-923-12095	Sequence 12095, A	482	32	61.5	332	5	US-10-732-923-12783	Sequence 12783, A
410	61.5	245	5	US-10-732-923-12096	Sequence 12096, A	483	32	61.5	333	5	US-10-732-923-12777	Sequence 12777, A
411	61.5	245	5	US-10-732-923-12107	Sequence 12107, A	484	32	61.5	333	5	US-10-732-923-12801	Sequence 12801, A
412	61.5	245	5	US-10-732-923-12112	Sequence 12112, A	485	32	61.5	335	5	US-10-450-763-11102	Sequence 11102, A
413	61.5	245	5	US-10-732-923-12113	Sequence 12113, A	486	32	61.5	341	5	US-10-732-923-12029	Sequence 12029, A
414	61.5	245	5	US-10-732-923-12114	Sequence 12114, A	487	32	61.5	341	5	US-10-732-923-12148	Sequence 12148, A
415	61.5	245	5	US-10-732-923-12112	Sequence 12112, A	488	32	61.5	341	5	US-10-732-923-12347	Sequence 12347, A
416	61.5	245	5	US-10-732-923-12123	Sequence 12123, A	489	32	61.5	345	5	US-10-732-923-12159	Sequence 12159, A
417	61.5	245	5	US-10-732-923-12133	Sequence 12133, A	490	32	61.5	349	4	US-10-425-115-223093	Sequence 223093, A
418	61.5	245	5	US-10-732-923-12134	Sequence 12134, A	491	32	61.5	350	4	US-10-424-599-284633	Sequence 284633, A
419	61.5	245	5	US-10-732-923-12135	Sequence 12135, A	492	32	61.5	351	4	US-10-282-122A-58364	Sequence 58364, A
420	61.5	245	5	US-10-732-923-12136	Sequence 12136, A	493	32	61.5	351	4	US-10-282-122A-66875	Sequence 66875, A
421	61.5	245	5	US-10-732-923-12137	Sequence 12137, A	494	32	61.5	352	5	US-10-732-923-12040	Sequence 12040, A
422	61.5	245	5	US-10-732-923-12130	Sequence 12130, A	495	32	61.5	353	4	US-10-282-122A-72666	Sequence 72666, A
423	61.5	245	5	US-10-732-923-12191	Sequence 12191, A	496	32	61.5	353	5	US-10-732-923-12782	Sequence 12782, A
424	61.5	245	5	US-10-732-923-12500	Sequence 12500, A	497	32	61.5	356	4	US-10-282-122A-59523	Sequence 59523, A
425	61.5	245	5	US-10-732-923-12504	Sequence 12504, A	498	32	61.5	356	5	US-10-732-923-12541	Sequence 12541, A
426	61.5	245	5	US-10-732-923-12534	Sequence 12534, A	499	32	61.5	358	5	US-10-732-923-12088	Sequence 12088, A
427	61.5	245	5	US-10-732-923-12535	Sequence 12535, A	500	32	61.5	358	5	US-10-732-923-12091	Sequence 12091, A
428	61.5	245	5	US-10-732-923-12792	Sequence 12792, A	501	32	61.5	358	5	US-10-732-923-12189	Sequence 12189, A
429	61.5	245	5	US-10-732-923-12793	Sequence 12793, A	502	32	61.5	358	5	US-10-732-923-12420	Sequence 12420, A
430	61.5	248	4	US-10-424-599-170310	Sequence 170310, A	503	32	61.5	359	4	US-10-282-122A-75949	Sequence 75949, A
431	61.5	255	4	US-10-437-963-151136	Sequence 151136, A	504	32	61.5	360	5	US-10-732-923-12068	Sequence 12068, A
432	61.5	257	4	US-10-369-493-13223	Sequence 13223, A	505	32	61.5	360	5	US-10-732-923-12160	Sequence 12160, A
433	61.5	264	4	US-10-425-114-63642	Sequence 63642, A	506	32	61.5	361	5	US-10-732-923-12192	Sequence 12192, A
434	61.5	264	4	US-10-437-963-192894	Sequence 192894, A	507	32	61.5	361	5	US-10-732-923-12078	Sequence 12078, A
435	61.5	273	5	US-10-491-467-39	Sequence 39, Appl	508	32	61.5	361	5	US-10-732-923-12077	Sequence 12077, A
436	61.5	283	4	US-10-425-115-303179	Sequence 303179, A	509	32	61.5	361	5	US-10-732-923-12098	Sequence 12098, A
437	61.5	283	5	US-10-723-860-2357	Sequence 2357, Ap	510	32	61.5	361	5	US-10-732-923-12116	Sequence 12116, A
438	61.5	283	5	US-10-751-736-122	Sequence 122, App	511	32	61.5	361	5	US-10-732-923-12506	Sequence 12506, A
439	61.5	292	4	US-10-425-115-195365	Sequence 195365, A	512	32	61.5	362	5	US-10-732-923-12064	Sequence 12064, A
440	61.5	293	4	US-10-437-963-170054	Sequence 170054, A	513	32	61.5	362	5	US-10-732-923-12078	Sequence 12078, A
441	61.5	295	5	US-10-732-923-12608	Sequence 12608, A	514	32	61.5	363	5	US-10-732-923-12069	Sequence 12069, A
442	61.5	297	4	US-10-282-122A-46649	Sequence 46649, A	515	32	61.5	363	5	US-10-732-923-12076	Sequence 12076, A
443	61.5	304	5	US-10-739-930-6773	Sequence 6773, Ap	516	32	61.5	363	5	US-10-732-923-12089	Sequence 12089, A
444	61.5	304	5	US-10-739-930-10910	Sequence 10910, A	517	32	61.5	363	5	US-10-732-923-12120	Sequence 12120, A
445	61.5	304	5	US-10-732-923-12481	Sequence 12481, A	518	32	61.5	363	5	US-10-732-923-12121	Sequence 12121, A
446	61.5	306	3	US-09-828-302-13	Sequence 13, Appl	519	32	61.5	364	5	US-10-732-923-12063	Sequence 12063, A
447	61.5	306	4	US-10-236-699-8	Sequence 8, Appl1	520	32	61.5	364	5	US-10-732-923-12065	Sequence 12065, A
448	61.5	306	4	US-10-236-699-22	Sequence 22, Appl1	521	32	61.5	364	5	US-10-732-923-12074	Sequence 12074, A
449	61.5	306	4	US-10-236-699-32	Sequence 32, Appl	522	32	61.5	364	5	US-10-732-923-12090	Sequence 12090, A
450	61.5	306	4	US-10-764-259-13	Sequence 13, Appl	523	32	61.5	364	5	US-10-732-923-12115	Sequence 12115, A
451	61.5	306	4	US-10-425-115-345205	Sequence 345205, A	524	32	61.5	364	5	US-10-732-923-12105	Sequence 12105, A
452	61.5	307	4	US-10-236-699-26	Sequence 26, Appl	525	32	61.5	364	5	US-10-732-923-12505	Sequence 12505, A
453	61.5	307	4	US-10-424-599-163708	Sequence 163708, A	526	32	61.5	365	5	US-10-732-923-12066	Sequence 12066, A
454	61.5	307	4	US-10-437-963-103935	Sequence 103935, A	527	32	61.5	365	5	US-10-732-923-12159	Sequence 12159, A
455	61.5	307	4	US-10-437-963-143206	Sequence 143206, A	528	32	61.5	365	5	US-10-732-923-12360	Sequence 12360, A
456	61.5	307	4	US-10-425-115-287051	Sequence 287051, A	529	32	61.5	365	5	US-10-732-923-12360	Sequence 12360, A
457	61.5	307	4	US-10-425-115-287936	Sequence 287936, A	530	32	61.5	366	5	US-10-732-923-12186	Sequence 12186, A
458	61.5	307	6	US-11-097-143-1167	Sequence 1167, Ap	531	32	61.5	367	4	US-10-437-963-174105	Sequence 174105, A
459	61.5	308	4	US-10-425-115-333776	Sequence 333776, A	532	32	61.5	368	5	US-10-732-923-12405	Sequence 12405, A
460	61.5	309	4	US-10-060-065-24	Sequence 24, Appl	533	32	61.5	369	4	US-09-801-368-268	Sequence 268, App
461	61.5	309	4	US-10-060-065-39	Sequence 39, Appl	534	32	61.5	369	4	US-10-369-493-15568	Sequence 15568, Ap
462	61.5	309	4	US-10-059-585-45	Sequence 45, Appl	535	32	61.5	370	4	US-10-732-923-12118	Sequence 12118, A
463	61.5	309	4	US-10-059-585-60	Sequence 60, Appl	536	32	61.5	370	4	US-10-732-923-12073	Sequence 12073, A
464	61.5	309	5	US-10-386-971-3	Sequence 3, Appl1	537	32	61.5	371	5	US-10-732-923-12125	Sequence 12125, A
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541	32	61.5	373	5	US-10-732-923-12199	Sequence 12199, A	614	32	61.5	391	5	US-10-732-923-12150	Sequence 12150, A
542	32	61.5	374	4	US-10-425-114-40943	Sequence 40943, A	615	32	61.5	391	5	US-10-732-923-12152	Sequence 12152, A
543	32	61.5	374	5	US-10-732-923-12017	Sequence 12017, A	616	32	61.5	391	5	US-10-732-923-12177	Sequence 12177, A
544	32	61.5	374	5	US-10-732-923-12041	Sequence 12041, A	617	32	61.5	391	5	US-10-732-923-12419	Sequence 12419, A
545	32	61.5	374	5	US-10-732-923-12042	Sequence 12042, A	618	32	61.5	391	5	US-10-732-923-12492	Sequence 12492, A
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552	32	61.5	374	5	US-10-732-923-12083	Sequence 12083, A	625	32	61.5	392	5	US-10-732-923-12184	Sequence 12184, A
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563	32	61.5	374	5	US-10-732-923-12111	Sequence 12111, A	636	32	61.5	392	5	US-10-732-923-12211	Sequence 12211, A
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572	32	61.5	374	5	US-10-732-923-12138	Sequence 12138, A	645	32	61.5	392	5	US-10-732-923-12221	Sequence 12221, A
573	32	61.5	374	5	US-10-732-923-12150	Sequence 12150, A	646	32	61.5	392	5	US-10-732-923-12223	Sequence 12223, A
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576	32	61.5	374	5	US-10-732-923-12179	Sequence 12179, A	649	32	61.5	392	5	US-10-732-923-12226	Sequence 12226, A
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578	32	61.5	376	5	US-10-732-923-12280	Sequence 12280, A	651	32	61.5	392	5	US-10-732-923-12228	Sequence 12228, A
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587	32	61.5	376	5	US-10-732-923-12775	Sequence 12775, A	660	32	61.5	392	5	US-10-732-923-12237	Sequence 12237, A
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589	32	61.5	376	5	US-10-732-923-12795	Sequence 12795, A	662	32	61.5	392	5	US-10-732-923-12239	Sequence 12239, A
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595	32	61.5	377	4	US-10-369-493-1551	Sequence 1551, Ap	668	32	61.5	392	5	US-10-732-923-12245	Sequence 12245, A
596	32	61.5	380	5	US-10-732-923-12216	Sequence 12216, A	669	32	61.5	392	5	US-10-732-923-12247	Sequence 12247, A
597	32	61.5	381	4	US-10-767-701-16140	Sequence 46140, A	670	32	61.5	392	5	US-10-732-923-12248	Sequence 12248, A
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607	32	61.5	388	4	US-10-732-923-12373	Sequence 12373, A	680	32	61.5	392	5	US-10-732-923-12260	Sequence 12260, A
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687	32	61.5	392	5	US-10-732-923-12266	Sequence 12266, A	760	32	61.5	396	4	US-10-425-115-33773	Sequence 33773, A
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691	32	61.5	392	5	US-10-732-923-12287	Sequence 12287, A	764	32	61.5	396	5	US-10-732-923-12763	Sequence 12763, A
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705	32	61.5	392	5	US-10-732-923-12304	Sequence 12304, A	778	32	61.5	422	4	US-10-017-161-2400	Sequence 2400, Ap
706	32	61.5	392	5	US-10-732-923-12324	Sequence 12324, A	779	32	61.5	422	4	US-10-292-798-2042	Sequence 2042, Ap
707	32	61.5	392	5	US-10-732-923-12325	Sequence 12325, A	780	32	61.5	423	5	US-10-732-923-12761	Sequence 12761, A
708	32	61.5	392	5	US-10-732-923-12326	Sequence 12326, A	781	32	61.5	424	5	US-10-732-923-12865	Sequence 12865, A
709	32	61.5	392	5	US-10-732-923-12390	Sequence 12390, A	782	32	61.5	430	4	US-10-084-846A-62	Sequence 62, App1
710	32	61.5	392	5	US-10-732-923-12496	Sequence 12490, A	783	32	61.5	431	5	US-10-732-923-1241	Sequence 4241, Ap
711	32	61.5	392	5	US-10-732-923-12529	Sequence 12529, A	784	32	61.5	435	5	US-10-732-923-12194	Sequence 12194, A
712	32	61.5	392	5	US-10-732-923-12559	Sequence 12559, A	785	32	61.5	444	5	US-10-732-923-12767	Sequence 12767, A
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716	32	61.5	393	5	US-10-732-923-12168	Sequence 12168, A	789	32	61.5	461	5	US-10-732-923-12503	Sequence 12503, A
717	32	61.5	393	5	US-10-732-923-12246	Sequence 12246, A	790	32	61.5	465	5	US-10-732-923-12768	Sequence 12768, A
718	32	61.5	393	5	US-10-732-923-12370	Sequence 12370, A	791	32	61.5	465	5	US-10-732-923-12803	Sequence 12803, A
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727	32	61.5	393	5	US-10-732-923-12776	Sequence 12776, A	800	32	61.5	515	4	US-10-425-115-26951	Sequence 26951, A
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733	32	61.5	394	5	US-10-732-923-12466	Sequence 12466, A	806	32	61.5	539	4	US-10-408-765A-1767	Sequence 1767, Ap
734	32	61.5	394	5	US-10-732-923-12476	Sequence 12476, A	807	32	61.5	542	4	US-10-289-762-496	Sequence 496, App
735	32	61.5	394	5	US-10-732-923-12477	Sequence 12477, A	808	32	61.5	554	5	US-10-732-923-12766	Sequence 12766, A
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ALIGNMENTS

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RESULT 1
US-10-484-063-7
; Sequence 7, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLELMO
; APPLICANT: POLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; FILE REFERENCE: UTSC:560US
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
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; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-7

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; Sequence 38, Application US/10476570
; Publication No. US20040170644A1
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; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELE-MORATILLE, Sandra
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; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; FILE REFERENCE: 45636-5071-US
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
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; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
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US-10-476-570-38
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Best Local Similarity 100.0%; Pred. No. 0.05;
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; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELE-MORATILLE, Sandra
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; FILE REFERENCE: 45636-5071-US
; CURRENT FILING DATE: 2003-11-04
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US-10-476-570-39

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APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
APPLICANT: MAILLIERE, Bernard
APPLICANT: BOURGAULT-VILLADA, Isabelle
APPLICANT: POUVELLE-MORATILLE, Sandra
APPLICANT: GUILLET, Jean-Gerard
TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
TITLE OF INVENTION: papillomavirus proteins and uses thereof
FILE REFERENCE: 45636-5071-US
CURRENT APPLICATION NUMBER: US/10/476,570
CURRENT FILING DATE: 2003-11-04
PRIOR APPLICATION NUMBER: PCT/FR02/01533
PRIOR FILING DATE: 2002-05-03
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PRIOR FILING DATE: 2001-05-04
NUMBER OF SEQ ID NOS: 63
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QY 1 PLCDLLIRC 9
    |||||
Db 12 PLCDLLIRC 20
```

```
RESULT 5
US-10-484-063-8
Sequence 8, Application US/10484063
Publication No. US20050048467A1
GENERAL INFORMATION:
APPLICANT: SASTRY, K. JAGANNADHA
APPLICANT: TORTOLERO-LUNA, GUILLERMO
APPLICANT: FOLLEN, MICHELE
TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
FILE REFERENCE: UTSC:560US
CURRENT APPLICATION NUMBER: US/10/484,063
CURRENT FILING DATE: 2004-01-16
PRIOR APPLICATION NUMBER: PCT/US02/23198
PRIOR FILING DATE: 2002-07-19
PRIOR APPLICATION NUMBER: 60/306,809
PRIOR FILING DATE: 2001-07-20
NUMBER OF SEQ ID NOS: 27
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 8
LENGTH: 20
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-484-063-8
```

```
Query Match          100.0%; Score 52; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.064;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 PLCDLLIRC 9
    |||||
Db 6 PLCDLLIRC 14
```

```
RESULT 6
US-10-476-570-13
Sequence 13, Application US/10476570
Publication No. US20040170644A1
GENERAL INFORMATION:
```

```
APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
APPLICANT: MAILLIERE, Bernard
APPLICANT: BOURGAULT-VILLADA, Isabelle
APPLICANT: POUVELLE-MORATILLE, Sandra
APPLICANT: GUILLET, Jean-Gerard
TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
TITLE OF INVENTION: papillomavirus proteins and uses thereof
FILE REFERENCE: 45636-5071-US
CURRENT APPLICATION NUMBER: US/10/476,570
CURRENT FILING DATE: 2003-11-04
PRIOR APPLICATION NUMBER: PCT/FR02/01533
PRIOR FILING DATE: 2002-05-03
PRIOR APPLICATION NUMBER: FR 01 05980
PRIOR FILING DATE: 2001-05-04
NUMBER OF SEQ ID NOS: 63
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 13
LENGTH: 29
TYPE: PRT
ORGANISM: artificial sequence
FEATURE:
OTHER INFORMATION: Description of the artificial sequence: peptide E6 91-119
US-10-476-570-13
```

```
Query Match          100.0%; Score 52; DB 4; Length 29;
Best Local Similarity 100.0%; Pred. No. 0.09;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 PLCDLLIRC 9
    |||||
Db 12 PLCDLLIRC 20
```

```
RESULT 7
US-10-177-390-6
Sequence 6, Application US/10177390
Publication No. US20030143743A1
GENERAL INFORMATION:
APPLICANT: Schuler, Gerold
APPLICANT: N.V. Antwerp Innovatiecentrum
TITLE OF INVENTION: Improved transfection of Eucaryotic Cells with Linear
TITLE OF INVENTION: Polynucleotides by Electroporation
FILE REFERENCE: 021505wo/JH/ml
CURRENT APPLICATION NUMBER: US/10/177,390
CURRENT FILING DATE: 2002-06-20
NUMBER OF SEQ ID NOS: 34
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 6
LENGTH: 151
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-177-390-6
```

```
Query Match          100.0%; Score 52; DB 4; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 PLCDLLIRC 9
    |||||
Db 95 PLCDLLIRC 103
```

```
RESULT 8
US-10-484-063-20
Sequence 20, Application US/10484063
Publication No. US20050048467A1
GENERAL INFORMATION:
APPLICANT: SASTRY, K. JAGANNADHA
APPLICANT: TORTOLERO-LUNA, GUILLERMO
APPLICANT: FOLLEN, MICHELE
TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
```

```
FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-20

Query Match          100.0%; Score 52; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PLCDLLIRC 9
Db 95 PLCDLLIRC 103

RESULT 9
US-10-484-063-27
; Sequence 27, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLEMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-484-063-27

Query Match          100.0%; Score 52; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PLCDLLIRC 9
Db 95 PLCDLLIRC 103

RESULT 10
US-10-858-384-2
; Sequence 2, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCES
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
```

```
CURRENT FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 2
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-10-858-384-2

Query Match          100.0%; Score 52; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.42;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PLCDLLIRC 9
Db 102 PLCDLLIRC 110

RESULT 11
US-10-367-057-16
; Sequence 16, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
; APPLICANT: Cutbilla, Scott;
; APPLICANT: Jackson, Amanda;
; APPLICANT: Lewin, David A.;
; APPLICANT: Ooi, Chean Eng
; TITLE OF INVENTION: Complexes and Methods of Using Same
; FILE REFERENCE: 21402-559
; CURRENT APPLICATION NUMBER: US/10/367,057
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: 60/236,911
; PRIOR FILING DATE: 2002-02-14
; NUMBER OF SEQ ID NOS: 198
; SOFTWARE: Curaseq1ist version 0.1
; SEQ ID NO 16
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-367-057-16

Query Match          100.0%; Score 52; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.42;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PLCDLLIRC 9
Db 102 PLCDLLIRC 110

RESULT 12
US-11-021-949-13
; Sequence 13, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 158
```

TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-13

Query Match 100.0%; Score 52; DB 6; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.42; 0; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PLCDLLIRC 9
Db 102 PLCDLLIRC 110

RESULT 13
US-10-472-724-2
Sequence 2, Application US/10472724
Publication No. US20040171806A1
GENERAL INFORMATION:
APPLICANT: Cid-Arregui, Angel
APPLICANT: Zur Hausen, Harald
TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
FILE REFERENCE: 4121-154
CURRENT APPLICATION NUMBER: US/10/472,724
CURRENT FILING DATE: 2003-09-17
PRIOR APPLICATION NUMBER: PCT/EP02/03271
PRIOR FILING DATE: 2002-03-22
PRIOR APPLICATION NUMBER: EP 01107271.7
PRIOR FILING DATE: 2001-03-23
NUMBER OF SEQ ID NOS: 27
SOFTWARE: PatentIn version 3.2
SEQ ID NO 2
LENGTH: 171
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Construct
US-10-472-724-2

Query Match 100.0%; Score 52; DB 4; Length 171;
Best Local Similarity 100.0%; Pred. No. 0.45; 0; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PLCDLLIRC 9
Db 107 PLCDLLIRC 115

RESULT 14
US-11-072-288-1
Sequence 1, Application US/11072288
Publication No. US20050159386A1
GENERAL INFORMATION:
APPLICANT: KIENY, Marie-Paule
APPLICANT: BALLOUL, Jean-Marie
APPLICANT: BIZOUARNE, Nadine
TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
TITLE OF INVENTION: POLYPEPTIDE WITH MODIFIED CELL LOCATION
FILE REFERENCE: 017753-122
CURRENT APPLICATION NUMBER: US/11/072,288
CURRENT FILING DATE: 2005-03-07
PRIOR APPLICATION NUMBER: US/09/462,993
PRIOR FILING DATE: 2000-04-17
PRIOR APPLICATION NUMBER: PCT/FR98/01576
PRIOR FILING DATE: 1998-07-17
PRIOR APPLICATION NUMBER: FR 97/09152
PRIOR FILING DATE: 1997-07-18
NUMBER OF SEQ ID NOS: 23
SOFTWARE: PatentIn Ver. 2.2
SEQ ID NO 1
LENGTH: 243
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: Derived from
OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
OTHER INFORMATION: fused F protein signals, clone B6*TMF.
US-11-072-288-1

Query Match 100.0%; Score 52; DB 6; Length 243;
Best Local Similarity 100.0%; Pred. No. 0.62; 0; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PLCDLLIRC 9
Db 130 PLCDLLIRC 138

RESULT 15
US-09-367-309A-1
Sequence 1, Application US/09367309A
Publication No. US20020081329A1
GENERAL INFORMATION:
APPLICANT: MACPARLAN, RODERICK I.
APPLICANT: MALLIAROS, JTM
TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
FILE REFERENCE: 017227/0149
CURRENT APPLICATION NUMBER: US/09/367,309A
CURRENT FILING DATE: 1999-08-11
PRIOR APPLICATION NUMBER: PCT/AU98/00080
PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: AU PO 5178
PRIOR FILING DATE: 1997-02-19
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 266
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 52; DB 3; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.67; 0; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PLCDLLIRC 9
Db 102 PLCDLLIRC 110

RESULT 16
US-10-000-903-4
Sequence 4, Application US/10000903
Publication No. US20020182221A1
GENERAL INFORMATION:
APPLICANT: BRUCK, Claudine
APPLICANT: Cabezon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Fernande
APPLICANT: Gerard, Catherine Marie Chloelaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/10/000,903
CURRENT FILING DATE: 2001-10-01
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 4
LENGTH: 273
TYPE: PRT
ORGANISM: Homo sapien
US-10-000-903-4

Query Match 100.0%; Score 52; DB 4; Length 273;

Best Local Similarity 100.0%; Pred. No. 0.69;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PLCDLLIRC 9
|||||
Db 208 PLCDLLIRC 216

RESULT 17
US-10-899-771-4
; Sequence 4, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeirc protein (protein D from Haemophilus
; OTHER INFORMATION: influenzae B and E6 from Human papilloma virus type
; OTHER INFORMATION: 16)
US-10-899-771-4

Query Match 100.0%; Score 52; DB 5; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.69;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PLCDLLIRC 9
|||||
Db 208 PLCDLLIRC 216

RESULT 18
US-10-000-903-10
; Sequence 10, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-10

Query Match 100.0%; Score 52; DB 4; Length 292;
Best Local Similarity 100.0%; Pred. No. 0.73;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PLCDLLIRC 9
|||||
Db 227 PLCDLLIRC 235

RESULT 19
US-10-899-771-10
; Sequence 10, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeirc protein (ClYta from Streptococcus
; OTHER INFORMATION: pneumoniae and E6 from Human papilloma virus type
; OTHER INFORMATION: 16)
US-10-899-771-10

Query Match 100.0%; Score 52; DB 5; Length 292;
Best Local Similarity 100.0%; Pred. No. 0.73;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PLCDLLIRC 9
|||||
Db 227 PLCDLLIRC 235

RESULT 20
US-10-000-903-6
; Sequence 6, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-6

Query Match 100.0%; Score 52; DB 4; Length 371;
Best Local Similarity 100.0%; Pred. No. 0.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PLCDLLIRC 9
|||||
Db 208 PLCDLLIRC 216

RESULT 21
US-10-899-771-6
; Sequence 6, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
; OTHER INFORMATION: influenzae B and B6E7 fusion from Human papilloma
; OTHER INFORMATION: virus type 16)
US-10-899-771-6

Query Match 100.0%; Score 52; DB 5; Length 371;
Best Local Similarity 100.0%; Pred. No. 0.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PLCDLLIRC 9
|||||
Db 208 PLCDLLIRC 216

RESULT 22
US-10-000-903-14
; Sequence 14, Application US/10000903
; Publication No. US2002018222A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapien

US-10-000-903-14

Query Match 100.0%; Score 52; DB 4; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.95;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PLCDLLIRC 9
|||||
Db 227 PLCDLLIRC 235

RESULT 23
US-10-899-771-14
; Sequence 14, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (Clyta from Streptococcus
; OTHER INFORMATION: pneumoniae and B6E7 fusion from Human papilloma
; OTHER INFORMATION: virus type 16)
US-10-899-771-14

Query Match 100.0%; Score 52; DB 5; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.95;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PLCDLLIRC 9
|||||
Db 227 PLCDLLIRC 235

RESULT 24
US-10-424-599-248871
; Sequence 248871, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 248871
; LENGTH: 100
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_66761C.1.pep
US-10-424-599-248871

Query Match 86.5%; Score 45; DB 4; Length 100;
Best Local Similarity 77.8%; Pred. No. 4.3;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 PLCDLLIRC 9
|||:|
26 PLCDLTVRC 34

RESULT 25

US-11-021-949-22
; Sequence 22, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; PRIOR FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 22
; LENGTH: 155
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-22

Query Match 86.5%; Score 45; DB 6; Length 155;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 LCDLLIRC 9
|||||
Db 99 LCDLLIRC 106

RESULT 26

US-11-021-949-18
; Sequence 18, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; PRIOR FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-18

Query Match 82.7%; Score 43; DB 6; Length 149;
Best Local Similarity 87.5%; Pred. No. 14;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 LCDLLIRC 9

Db :|||||
96 ICDLLIRC 103

RESULT 27

US-10-450-763-31975
; Sequence 31975, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; CURRENT FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 31975
; LENGTH: 644
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: DOMAIN
; LOCATION: (336)..(369)
; OTHER INFORMATION: CHORISMATE MUTASE BIOSYNTHESIS C domain identified by
; OTHER INFORMATION: eWATRIx, accession number PD02478, p-value=8.500e-20, raw score 0
; OTHER INFORMATION: 15.76
; FEATURE:
; NAME/KEY: DOMAIN
; LOCATION: (284)..(321)
; OTHER INFORMATION: Cytochrome P450 domain identified by Pfam, accession name
US-10-450-763-31975

Query Match 80.8%; Score 42; DB 5; Length 644;
Best Local Similarity 66.7%; Pred. No. 75;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 PLCDLLIRC 9
|||:|
Db 267 PLCDRLIRC 275

RESULT 28

US-11-021-949-27
; Sequence 27, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; PRIOR FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 150
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-27

Query Match 76.9%; Score 40; DB 6; Length 150;
Best Local Similarity 87.5%; Pred. No. 44;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 LCDDLIRC 9
|||:||||
Db 96 LCNLLIRC 103

RESULT 29
US-11-021-949-26
; Sequence 26, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SAMIENTO, CHAMORRO SONOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 151
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-26

Query Match 76.9%; Score 40; DB 6; Length 151;
Best Local Similarity 87.5%; Pred. No. 44;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 LCDDLIRC 9
|||:||||
Db 96 LCNLLIRC 103

RESULT 30
US-10-425-115-309527
; Sequence 309527, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 309527
; LENGTH: 318
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MWT4577_45351C.1.pep
US-10-425-115-309527

Query Match 76.0%; Score 39.5; DB 4; Length 318;
Best Local Similarity 80.0%; Pred. No. 1.1e+02;
Matches 8; Conservative 1; Mismatches 0; Indels 1; Gaps 1;

QY 1 PLCD-LIIRC 9
|||:||||
Db 148 PLCDLIIRC 157

RESULT 31
US-10-732-923-12468
; Sequence 12468, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 12468
; LENGTH: 190
; TYPE: PRT
; ORGANISM: Tmesipteris tannensis
US-10-732-923-12468

Query Match 75.0%; Score 39; DB 5; Length 190;
Best Local Similarity 75.0%; Pred. No. 81;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 PLCDLIIRC 8
|||:||||
Db 170 PLCDMLIR 177

RESULT 32
US-10-732-923-12757
; Sequence 12757, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 12757
; LENGTH: 190
; TYPE: PRT
; ORGANISM: Huperzia selago
US-10-732-923-12757

Query Match 75.0%; Score 39; DB 5; Length 190;
Best Local Similarity 75.0%; Pred. No. 81;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 PLCDLIIRC 8
|||:||||
Db 170 PLCDMLIR 177

RESULT 33
US-10-485-710-135
; Sequence 135, Application US/10485710
; Publication No. US20050064563A1
; GENERAL INFORMATION:
; APPLICANT: HEIDE, LUTZ
; APPLICANT: LI, SHU-MING
; TITLE OF INVENTION: NUCLEIC ACIDS FOR AMINOOCUMARIN BIOSYNTHESIS
; FILE REFERENCE: 079612
; CURRENT APPLICATION NUMBER: US/10/485,710
; CURRENT FILING DATE: 2004-02-04
; PRIOR APPLICATION NUMBER: PCT/EP02/08777
; PRIOR FILING DATE: 2002-08-06
; PRIOR APPLICATION NUMBER: 60/310,808
; PRIOR FILING DATE: 2001-08-08

NUMBER OF SEQ ID NOS: 145
SOFTWARE: PatentIn Ver. 3.2
SEQ ID NO: 135
LENGTH: 379
TYPE: PRT
ORGANISM: Streptomyces spheroides
US-10-485-710-135

Query Match 75.0%; Score 39; DB 5; Length 379;
Best Local Similarity 77.8%; Pred. No. 1.6e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 PLCDLLIRC 9
Db 267 PLCDLLPTC 275

RESULT 34
US-10-485-710-94
Sequence 94, Application US/10485710
Publication No. US20050064563A1
GENERAL INFORMATION:
APPLICANT: HEIDE, LUTZ
APPLICANT: LI, SHU-MING
TITLE OF INVENTION: NUCLEIC ACIDS FOR AMINOCUMARIN BIOSYNTHESIS
FILE REFERENCE: Q79612
CURRENT APPLICATION NUMBER: US/10/485,710
CURRENT FILING DATE: 2004-02-04
PRIOR APPLICATION NUMBER: PCT/EP02/08777
PRIOR FILING DATE: 2002-08-06
PRIOR APPLICATION NUMBER: 60/310,808
PRIOR FILING DATE: 2001-08-08
NUMBER OF SEQ ID NOS: 145
SOFTWARE: PatentIn Ver. 3.2
SEQ ID NO 94
LENGTH: 390
TYPE: PRT
ORGANISM: Streptomyces roseochromogenes
US-10-485-710-94

Query Match 75.0%; Score 39; DB 5; Length 390;
Best Local Similarity 77.8%; Pred. No. 1.6e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 PLCDLLIRC 9
Db 267 PLCDLLPTC 275

RESULT 35
US-10-485-710-21
Sequence 21, Application US/10485710
Publication No. US20050064563A1
GENERAL INFORMATION:
APPLICANT: HEIDE, LUTZ
APPLICANT: LI, SHU-MING
TITLE OF INVENTION: NUCLEIC ACIDS FOR AMINOCUMARIN BIOSYNTHESIS
FILE REFERENCE: Q79612
CURRENT APPLICATION NUMBER: US/10/485,710
CURRENT FILING DATE: 2004-02-04
PRIOR APPLICATION NUMBER: PCT/EP02/08777
PRIOR FILING DATE: 2002-08-06
PRIOR APPLICATION NUMBER: 60/310,808
PRIOR FILING DATE: 2001-08-08
NUMBER OF SEQ ID NOS: 145
SOFTWARE: PatentIn Ver. 3.2
SEQ ID NO 21
LENGTH: 402
TYPE: PRT
ORGANISM: Streptomyces rishiriensis
US-10-485-710-21

Query Match 75.0%; Score 39; DB 5; Length 402;

Best Local Similarity 77.8%; Pred. No. 1.6e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 PLCDLLIRC 9
Db 278 PLCDLLPTC 286

RESULT 36
US-10-485-710-53
Sequence 53, Application US/10485710
Publication No. US20050064563A1
GENERAL INFORMATION:
APPLICANT: HEIDE, LUTZ
APPLICANT: LI, SHU-MING
TITLE OF INVENTION: NUCLEIC ACIDS FOR AMINOCUMARIN BIOSYNTHESIS
FILE REFERENCE: Q79612
CURRENT APPLICATION NUMBER: US/10/485,710
CURRENT FILING DATE: 2004-02-04
PRIOR APPLICATION NUMBER: PCT/EP02/08777
PRIOR FILING DATE: 2002-08-06
PRIOR APPLICATION NUMBER: 60/310,808
PRIOR FILING DATE: 2001-08-08
NUMBER OF SEQ ID NOS: 145
SOFTWARE: PatentIn Ver. 3.2
SEQ ID NO 53
LENGTH: 402
TYPE: PRT
ORGANISM: Streptomyces rishiriensis
US-10-485-710-53

Query Match 75.0%; Score 39; DB 5; Length 402;
Best Local Similarity 77.8%; Pred. No. 1.6e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 PLCDLLIRC 9
Db 278 PLCDLLPTC 286

RESULT 37
US-10-476-570-55
Sequence 55, Application US/10476570
Publication No. US20040170644A1
GENERAL INFORMATION:
APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
APPLICANT: MAILLIERE, Bernard
APPLICANT: BOURGAULT-VILLADA, Isabelle
APPLICANT: GUILLET, Jean-Gerard
TITLE OF INVENTION: Mixture of peptides derived from B6 and/or E7
TITLE OF INVENTION: papillomavirus proteins and uses thereof
FILE REFERENCE: 45636-5071-US
CURRENT APPLICATION NUMBER: US/10/476,570
CURRENT FILING DATE: 2003-11-04
PRIOR APPLICATION NUMBER: PCT/FR02/01533
PRIOR FILING DATE: 2002-05-03
PRIOR APPLICATION NUMBER: FR 01 05980
PRIOR FILING DATE: 2001-05-04
NUMBER OF SEQ ID NOS: 63
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 55
LENGTH: 29
TYPE: PRT
ORGANISM: artificial sequence
FEATURE:
OTHER INFORMATION: Description of the artificial sequence: peptide E6 80-108
US-10-476-570-55

Query Match 73.1%; Score 38; DB 4; Length 29;
Best Local Similarity 100.0%; Pred. No. 22;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PLCDLLI 7
|:|:|:|
Db 23 PLCDLLI 29

RESULT 38
US-10-858-384-8
; Sequence 8, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
; APPLICANT: CHOEPIN, JEANINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: PERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
; CURRENT FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patent In Ver. 3.2
; SEQ ID NO 8
; LENGTH: 29
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of the Artificial Sequence: Peptide fragment
US-10-858-384-8

Query Match 73.1%; Score 38; DB 5; Length 29;
Best Local Similarity 100.0%; Pred. No. 22;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PLCDLLI 7
|:|:|:|
Db 23 PLCDLLI 29

RESULT 39
US-10-425-115-269200
; Sequence 269200, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 269200
; LENGTH: 55
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MWT4577_177108C.1.pep
US-10-425-115-269200

Query Match 73.1%; Score 38; DB 4; Length 55;
Best Local Similarity 66.7%; Pred. No. 39;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 PLCDLLIRC 9
|:|:|:|:|
|:|:|:|:|

Db 21 PICDALLRC 29

RESULT 40
US-11-021-949-19
; Sequence 19, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 19
; LENGTH: 148
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-19

Query Match 73.1%; Score 38; DB 6; Length 148;
Best Local Similarity 75.0%; Pred. No. 96;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 LCDLLIRC 9
|:|:|:|
Db 97 LCDLLIRC 104

RESULT 41
US-11-021-949-359
; Sequence 359, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 359
; LENGTH: 148
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-359

Query Match 73.1%; Score 38; DB 6; Length 148;
Best Local Similarity 75.0%; Pred. No. 96;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 LCDLLIRC 9
|:|:|:|
Db 97 LCDLLIRC 104

RESULT 42
US-11-021-949-14

```
; Sequence 14, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; PRIOR FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
; US-11-021-949-14

Query Match      73.1%; Score 38; DB 6; Length 149;
Best Local Similarity 87.5%; Pred. No. 96;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 LCDLLIRC 9
Db      96 LCHLLIRC 103

RESULT 43
US-10-425-114-46825
; Sequence 46825, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 46825
; LENGTH: 154
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: 701062335_FLI.pep
; US-10-425-114-46825

Query Match      73.1%; Score 38; DB 4; Length 154;
Best Local Similarity 100.0%; Pred. No. 99;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 PLCDLLI 7
Db      40 PLCDLLI 46

RESULT 44
US-10-437-963-107183
; Sequence 107183, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Kovalic, David K.

; APPLICANT: Zhou, Yihua
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 107183
; LENGTH: 367
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_1155C.1.pep
; US-10-437-963-107183

Query Match      73.1%; Score 38; DB 4; Length 367;
Best Local Similarity 66.7%; Pred. No. 2,2e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 PLCDLLIRC 9
Db      53 PLCALCRC 61

RESULT 45
US-10-437-963-177292
; Sequence 177292, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 177292
; LENGTH: 526
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_74959C.1.pep
; US-10-437-963-177292

Query Match      73.1%; Score 38; DB 4; Length 526;
Best Local Similarity 100.0%; Pred. No. 3e+02;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 PLCDLLI 7
Db      416 PLCDLLI 422

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US-10-424-599-205535
; Sequence 205535, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou Yihua
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APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 205535
; LENGTH: 532
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_27626C.1.pep
US-10-424-599-205535

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Best Local Similarity 100.0%; Pred. No. 3e+02;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 PLCDLLI 7
Db      418 PLCDLLI 424

RESULT 47
US-10-424-599-178710
; Sequence 178710, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 178710
; LENGTH: 539
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_132392C.1.pep
US-10-424-599-178710

Query Match          73.1%; Score 38; DB 4; Length 539;
Best Local Similarity 100.0%; Pred. No. 3.1e+02;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 PLCDLLI 7
Db      425 PLCDLLI 431

RESULT 48
US-11-097-143-3294
; Sequence 3294, Application US/11097143
; Publication No. US20050208558A1
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; APPLICANT: et al.
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
; FILE REFERENCE: CL000728
; CURRENT APPLICATION NUMBER: US/11/097,143
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
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; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
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; LENGTH: 594
; TYPE: PRT
; ORGANISM: DROSOPHILA
US-11-097-143-3294

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Best Local Similarity 55.6%; Pred. No. 3.4e+02;
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QY      1 PLCDLLIRC 9
Db      126 PLCDLLIRC 134

RESULT 49
US-10-094-749-3022
; Sequence 3022, Application US/10094749
; Publication No. US20030219741A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHIKO
; APPLICANT: OTSUKA, MOTOTYUKI
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: NAGAHARA, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: NOVEL FULL-LENGTH cDNA
; FILE REFERENCE: 08435/0160
; CURRENT APPLICATION NUMBER: US/10/094,749
; CURRENT FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 60/350,435
; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: JP 2001-328381
; PRIOR FILING DATE: 2001-09-14
; NUMBER OF SEQ ID NOS: 3381
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3022
; LENGTH: 701
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-094-749-3022

Query Match          73.1%; Score 38; DB 4; Length 701;
Best Local Similarity 77.8%; Pred. No. 3.9e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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Db 469 PLCDLLRRC 477

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; Sequence 50436, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
; APPLICANT: Hysed, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; CURRENT FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 50436
; LENGTH: 2645
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: DOMAIN
; LOCATION: (1056)..(1077)
; OTHER INFORMATION: Somatomedin B domain proteins domain identified by eMATRIX.
; OTHER INFORMATION: accession number BL00524A, p-value=4.282e-09, raw score of 9.65
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; NAME/KEY: DOMAIN
; LOCATION: (321)..(2604)
; OTHER INFORMATION: TPR Domain domain identified by Pfam, accession name TPR, E-
; OTHER INFORMATION: value=6.3e-39, Pfam score of 142.8
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; OTHER INFORMATION: Xaa = X or * as defined in Table 2
US-10-450-763-50436
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Best Local Similarity 77.8%; Pred. No. 1.3e+03;

Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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Db 682 PLCDLLRRC 690

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Job time : 76.2 secs

GenCore version 5.1.7
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OM protein - protein search, using sw model

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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

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- 7: /SIDSS/pcodata/1/pubppaa/US09_NEW_PUB.pep1:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	52	100.0	248	9	US-10-530-253-3
5	52	100.0	248	9	US-10-530-253-7
6	52	100.0	248	9	US-10-530-253-9
7	52	100.0	248	9	US-10-530-253-11
8	52	100.0	256	11	US-11-192-923A-2
9	45	86.5	11	9	US-10-530-061-497
10	45	86.5	155	9	US-10-530-253-23
11	43	82.7	149	9	US-10-530-253-16
12	42	80.8	838	11	US-11-096-568A-32095
13	42	80.8	917	11	US-11-096-568A-32095
14	42	80.8	949	11	US-11-096-568A-32094
15	38	73.1	11	9	US-10-530-061-782
16	38	73.1	149	9	US-10-530-253-18
17	36	69.2	9	9	US-10-530-061-642
18	36	69.2	160	9	US-10-530-253-25
19	35	67.3	9	9	US-10-530-061-75
20	35	67.3	9	9	US-10-530-061-126
21	35	67.3	9	9	US-10-530-061-126

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23	67.3	225	11	US-11-087-099-11058	Sequence 11058, A
24	67.3	407	11	US-11-072-512-3074	Sequence 3074, Ap
25	67.3	550	11	US-11-188-298-13965	Sequence 13965, A
26	67.3	558	11	US-11-188-298-9296	Sequence 9296, Ap
27	67.3	558	11	US-11-188-298-11552	Sequence 11552, A
28	65.4	149	9	US-10-530-061-1680	Sequence 1680, Ap
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30	65.4	211	11	US-11-098-686-11255	Sequence 11255, A
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32	65.4	393	11	US-11-087-099-8723	Sequence 784, App
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34	65.4	394	11	US-11-087-099-11887	Sequence 2810, Ap
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87	61.5	313	11	US-11-096-568A-22884	Sequence 9832, Ap
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109	32	61.5	360	11	US-11-087-099-6924	Sequence 6924, Ap	182	32	61.5	376	11	US-11-087-099-4509	Sequence 4509, Ap
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112	32	61.5	361	11	US-11-087-099-3244	Sequence 3244, Ap	185	32	61.5	376	11	US-11-087-099-5985	Sequence 5985, Ap
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134	32	61.5	368	11	US-11-087-099-8423	Sequence 8423, A	207	32	61.5	391	11	US-11-087-099-4105	Sequence 4105, Ap
135	32	61.5	369	11	US-11-087-099-4654	Sequence 4654, Ap	208	32	61.5	391	11	US-11-087-099-4197	Sequence 4197, Ap
136	32	61.5	370	11	US-11-096-568A-22883	Sequence 22883, A	209	32	61.5	391	11	US-11-087-099-4808	Sequence 4808, Ap
137	32	61.5	370	11	US-11-087-099-4748	Sequence 4748, Ap	210	32	61.5	391	11	US-11-087-099-6831	Sequence 6831, Ap
138	32	61.5	371	11	US-11-087-099-628	Sequence 628, App	211	32	61.5	391	11	US-11-087-099-11571	Sequence 11571, A
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140	32	61.5	373	11	US-11-087-099-8553	Sequence 8553, Ap	213	32	61.5	392	11	US-11-087-099-713	Sequence 713, App
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143	32	61.5	374	11	US-11-087-099-1349	Sequence 1349, Ap	216	32	61.5	392	11	US-11-087-099-870	Sequence 870, App
144	32	61.5	374	11	US-11-087-099-1354	Sequence 1354, Ap	217	32	61.5	392	11	US-11-087-099-884	Sequence 884, App
145	32	61.5	374	11	US-11-087-099-9284	Sequence 9284, Ap	218	32	61.5	392	11	US-11-087-099-1010	Sequence 1010, Ap
146	32	61.5	374	11	US-11-087-099-2403	Sequence 2403, Ap	219	32	61.5	392	11	US-11-087-099-1122	Sequence 1122, Ap
147	32	61.5	374	11	US-11-087-099-2515	Sequence 2515, Ap	220	32	61.5	392	11	US-11-087-099-1547	Sequence 1547, Ap
148	32	61.5	374	11	US-11-087-099-2800	Sequence 2800, Ap	221	32	61.5	392	11	US-11-087-099-1157	Sequence 1157, Ap
149	32	61.5	374	11	US-11-087-099-3644	Sequence 3644, Ap	222	32	61.5	392	11	US-11-087-099-1690	Sequence 1690, Ap
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152	32	61.5	374	11	US-11-087-099-4312	Sequence 4312, Ap	225	32	61.5	392	11	US-11-087-099-2084	Sequence 2084, Ap
153	32	61.5	374	11	US-11-087-099-4403	Sequence 4403, Ap	226	32	61.5	392	11	US-11-087-099-2178	Sequence 2178, Ap
154	32	61.5	374	11	US-11-087-099-5801	Sequence 5801, Ap	227	32	61.5	392	11	US-11-087-099-2325	Sequence 2325, Ap
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156	32	61.5	374	11	US-11-087-099-6183	Sequence 6183, Ap	229	32	61.5	392	11	US-11-087-099-2863	Sequence 2863, Ap
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165	32	61.5	374	11	US-11-087-099-8526	Sequence 8526, Ap	238	32	61.5	392	11	US-11-087-099-3955	Sequence 3905, Ap
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396	32	61.5	1121	11	US-11-087-099-8532	Sequence 8532, App	469	31	59.6	415	11	US-11-087-099-7779	Sequence 7779, App
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405	32	61.5	1126	11	US-11-087-099-5243	Sequence 5243, App	478	31	59.6	465	11	US-11-087-099-7406	Sequence 7406, App
406	32	61.5	1129	11	US-11-087-099-3328	Sequence 3328, App	479	31	59.6	465	11	US-11-087-099-8842	Sequence 8842, App
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408	32	61.5	1130	11	US-11-087-099-9987	Sequence 9987, App	481	31	59.6	467	11	US-11-087-099-9940	Sequence 9940, App
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417	32	61.5	1136	11	US-11-087-099-3920	Sequence 3920, App	490	31	59.6	1122	11	US-11-087-099-9404	Sequence 9404, App
418	32	61.5	1137	11	US-11-087-099-3651	Sequence 3651, App	491	31	59.6	1122	11	US-11-087-099-12448	Sequence 12448, A
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435	32	61.5	1171	11	US-11-087-099-7445	Sequence 7445, App	508	30	57.7	197	11	US-11-188-298-16129	Sequence 16129, A
436	32	61.5	1171	11	US-11-087-099-9917	Sequence 9917, App	509	30	57.7	199	11	US-11-188-298-10553	Sequence 10553, A
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440	32	61.5	1303	11	US-11-087-099-10526	Sequence 10526, A	513	30	57.7	264	11	US-11-087-099-4440	Sequence 4440, App
441	32	61.5	1307	11	US-11-087-099-4253	Sequence 4253, App	514	30	57.7	274	11	US-11-087-099-28464	Sequence 28464, App
442	31	59.6	14	11	US-11-232-439-31	Sequence 31, Appl1	515	30	57.7	276	11	US-11-087-099-31108	Sequence 31108, A
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444	31	59.6	15	9	US-10-530-061-1689	Sequence 1689, App	517	30	57.7	283	11	US-11-255-794-24	Sequence 24, Appl1
445	31	59.6	17	11	US-11-232-439-451	Sequence 451, App	518	30	57.7	287	11	US-11-087-099-31107	Sequence 31107, A
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451	31	59.6	178	9	US-10-467-657-8306	Sequence 8306, App	524	30	57.7	348	11	US-11-087-099-10136	Sequence 10136, A
452	31	59.6	196	9	US-10-467-657-5810	Sequence 5810, App	525	30	57.7	377	11	US-11-087-099-2908	Sequence 2908, App
453	31	59.6	209	11	US-11-087-099-3865	Sequence 3865, App	526	30	57.7	378	11	US-11-188-298-762	Sequence 762, App
454	31	59.6	210	11	US-11-087-099-5592	Sequence 5592, App	527	30	57.7	387	11	US-11-188-298-1450	Sequence 1450, App
455	31	59.6	210	11	US-11-087-099-9624	Sequence 9624, App	528	30	57.7	389	11	US-11-188-298-1562	Sequence 1562, App
456	31	59.6	210	11	US-11-087-099-10614	Sequence 10614, A	529	30	57.7	390	11	US-11-087-099-8039	Sequence 8039, App
457	31	59.6	228	11	US-11-188-298-15886	Sequence 15886, A	530	30	57.7	391	11	US-11-087-099-1879	Sequence 1879, App
458	31	59.6	230	11	US-11-188-298-1774	Sequence 1774, App	531	30	57.7	392	11	US-11-087-099-9567	Sequence 9567, App
459	31	59.6	262	11	US-11-072-512-2006	Sequence 2006, App	532	30	57.7	394	11	US-11-087-099-8818	Sequence 8818, App

533	30	57.7	404	11	US-11-188-298-8645	Sequence 8645, Ap	606	29	55.8	278	11	US-11-096-568A-25421	Sequence 25421, A
534	30	57.7	410	11	US-11-188-298-8233	Sequence 8233, Ap	607	29	55.8	286	11	US-11-096-568A-25420	Sequence 25420, A
535	30	57.7	413	11	US-11-188-298-8230	Sequence 8235, Ap	608	29	55.8	302	11	US-11-096-568A-19317	Sequence 19317, A
536	30	57.7	413	11	US-11-188-298-15320	Sequence 15320, A	609	29	55.8	315	11	US-11-096-568A-8939	Sequence 8939, Ap
537	30	57.7	415	11	US-11-188-298-11955	Sequence 11955, A	610	29	55.8	315	11	US-11-096-568A-25419	Sequence 25419, A
538	30	57.7	417	11	US-11-188-298-527	Sequence 527, App	611	29	55.8	320	9	US-10-995-561-947	Sequence 947, App
539	30	57.7	417	11	US-11-188-298-13600	Sequence 13600, A	612	29	55.8	328	11	US-11-096-568A-8588	Sequence 8588, Ap
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542	30	57.7	428	11	US-11-087-099-7343	Sequence 7343, Ap	615	29	55.8	359	11	US-11-188-298-15241	Sequence 15241, A
543	30	57.7	469	9	US-10-467-657-4370	Sequence 4370, Ap	616	29	55.8	367	11	US-11-045-004-1309	Sequence 1309, Ap
544	30	57.7	477	11	US-11-188-298-10698	Sequence 10698, A	617	29	55.8	372	9	US-10-844-035-1	Sequence 1, App1
545	30	57.7	488	11	US-11-188-298-807	Sequence 807, App	618	29	55.8	373	9	US-10-995-561-948	Sequence 948, App
546	30	57.7	488	11	US-11-188-298-17472	Sequence 17472, A	619	29	55.8	374	11	US-11-087-099-11204	Sequence 11204, A
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548	30	57.7	526	11	US-11-188-298-11105	Sequence 11105, A	621	29	55.8	376	11	US-10-995-561-946	Sequence 946, App
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550	30	57.7	553	11	US-11-188-298-14994	Sequence 14994, A	623	29	55.8	376	11	US-11-087-099-10032	Sequence 949, App
551	30	57.7	558	11	US-11-133-360-19	Sequence 19, App1	624	29	55.8	385	9	US-10-995-561-945	Sequence 945, App
552	30	57.7	558	11	US-11-133-346-19	Sequence 19, App1	625	29	55.8	385	9	US-10-995-561-945	Sequence 949, App
553	30	57.7	560	11	US-11-033-039-1312	Sequence 1312, Ap	626	29	55.8	392	11	US-11-087-099-1267	Sequence 1267, Ap
554	30	57.7	560	11	US-11-131-479-22	Sequence 22, App1	627	29	55.8	392	11	US-11-087-099-1089	Sequence 1089, Ap
555	30	57.7	561	11	US-11-188-298-1680	Sequence 1680, Ap	628	29	55.8	398	11	US-11-096-568A-18324	Sequence 18324, A
556	30	57.7	577	11	US-11-072-512-3148	Sequence 3148, Ap	629	29	55.8	406	11	US-11-131-479-246	Sequence 246, App
557	30	57.7	577	11	US-11-096-568A-28886	Sequence 28886, A	630	29	55.8	406	11	US-11-131-479-246	Sequence 18, App1
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559	30	57.7	742	11	US-11-188-298-9136	Sequence 9136, Ap	632	29	55.8	426	9	US-10-965-103-4	Sequence 4, App1
560	30	57.7	751	11	US-11-096-568A-28884	Sequence 28884, A	633	29	55.8	426	11	US-11-270-717-4	Sequence 4, App1
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563	30	57.7	880	11	US-11-096-568A-31424	Sequence 31424, A	636	29	55.8	430	11	US-11-087-099-7396	Sequence 7396, Ap
564	30	57.7	880	11	US-11-096-568A-32969	Sequence 32969, A	637	29	55.8	430	11	US-11-087-099-12253	Sequence 12253, A
565	30	57.7	895	11	US-11-096-568A-31423	Sequence 31423, A	638	29	55.8	437	11	US-11-087-099-774	Sequence 577, App
566	30	57.7	895	11	US-11-096-568A-32968	Sequence 32968, A	639	29	55.8	463	11	US-11-096-568A-18323	Sequence 18323, A
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568	30	57.7	905	9	US-10-330-773-873	Sequence 873, App	641	29	55.8	511	11	US-11-188-298-404	Sequence 404, App
569	30	57.7	1111	11	US-11-087-099-998	Sequence 998, App	642	29	55.8	520	11	US-11-096-568A-18322	Sequence 18322, A
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571	30	57.7	1137	11	US-11-087-099-5799	Sequence 5799, Ap	644	29	55.8	548	11	US-11-144-947-469	Sequence 469, App
572	30	57.7	1674	8	US-10-511-937-2587	Sequence 2587, Ap	645	29	55.8	570	11	US-11-096-568A-33137	Sequence 33137, A
573	30	57.7	1754	11	US-11-188-298-13090	Sequence 13090, A	646	29	55.8	575	11	US-11-188-298-13893	Sequence 13893, A
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575	29	55.8	9	9	US-10-530-061-846	Sequence 846, App	648	29	55.8	630	11	US-11-096-568A-33135	Sequence 33135, A
576	29	55.8	11	9	US-10-530-061-487	Sequence 487, App	649	29	55.8	700	8	US-10-505-928-351	Sequence 351, App
577	29	55.8	15	9	US-10-530-061-1664	Sequence 1664, Ap	650	29	55.8	837	11	US-11-188-298-8046	Sequence 8046, Ap
578	29	55.8	15	9	US-10-530-061-1684	Sequence 1684, Ap	651	29	55.8	837	11	US-11-188-298-8046	Sequence 160, App
579	29	55.8	15	11	US-11-140-284-25	Sequence 25, App1	652	29	55.8	1115	9	US-10-055-877-160	Sequence 376, App1
580	29	55.8	20	11	US-11-145-861-75	Sequence 75, App1	653	29	55.8	1142	9	US-10-501-035-376	Sequence 22, App1
581	29	55.8	50	11	US-11-234-225-22	Sequence 22, App1	654	29	55.8	1154	9	US-11-109-156-22	Sequence 867, App
582	29	55.8	50	11	US-11-234-225-31	Sequence 31, App1	655	29	55.8	1170	9	US-10-330-773-867	Sequence 864, App
583	29	55.8	50	11	US-11-234-308-22	Sequence 22, App1	656	29	55.8	1463	11	US-11-096-568A-14632	Sequence 14632, A
584	29	55.8	50	11	US-11-234-308-31	Sequence 31, App1	657	29	55.8	1473	11	US-11-096-568A-14691	Sequence 14691, A
585	29	55.8	73	11	US-11-096-568A-14165	Sequence 14165, A	658	29	55.8	1473	11	US-11-096-568A-14690	Sequence 296, App
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587	29	55.8	107	11	US-11-188-298-12105	Sequence 12105, A	660	29	55.8	14	11	US-11-004-339-627	Sequence 3637, Ap
588	29	55.8	113	11	US-11-096-568A-25935	Sequence 25935, A	661	29	55.8	14	11	US-11-004-339-6357	Sequence 3938, Ap
589	29	55.8	115	11	US-11-096-568A-14164	Sequence 14164, A	662	29	55.8	14	11	US-11-004-339-3938	Sequence 1691, App
590	29	55.8	126	11	US-11-096-568A-14163	Sequence 14163, A	663	29	55.8	15	11	US-10-530-061-1691	Sequence 5662, Ap
591	29	55.8	149	11	US-11-064-774A-115	Sequence 115, App	664	29	55.8	41	9	US-10-467-657-6562	Sequence 51, App1
592	29	55.8	149	11	US-11-075-400-4	Sequence 4, App1	665	29	55.8	41	9	US-10-467-657-6562	Sequence 2165, Ap
593	29	55.8	149	11	US-11-226-005-5	Sequence 5, App1	666	29	55.8	49	11	US-11-264-096-2165	Sequence 30, App1
594	29	55.8	149	11	US-11-075-400A-4	Sequence 85, App1	667	29	55.8	50	11	US-11-234-225-30	Sequence 30, App1
595	29	55.8	158	9	US-10-530-253-15	Sequence 15, App1	668	29	55.8	55	11	US-11-229-769-180	Sequence 180, App
596	29	55.8	158	9	US-10-530-253-15	Sequence 15, App1	669	29	55.8	69	9	US-10-506-454-577	Sequence 577, App
597	29	55.8	158	9	US-10-530-253-20	Sequence 20, App1	670	29	55.8	72	9	US-10-948-571-55	Sequence 55, App1
598	29	55.8	158	9	US-10-530-253-20	Sequence 26, App1	671	29	55.8	81	11	US-11-226-657-137	Sequence 167, App
599	29	55.8	167	11	US-11-264-096-499	Sequence 499, App	672	29	55.8	82	11	US-11-264-096-1133	Sequence 1133, Ap
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601	29	55.8	193	11	US-11-045-004-351	Sequence 351, App	674	29	55.8	102	11	US-11-264-096-1185	Sequence 1135, Ap
602	29	55.8	205	9	US-10-330-773-962	Sequence 962, App	675	29	55.8	103	11	US-11-188-298-15080	Sequence 9803, Ap
603	29	55.8	229	11	US-11-188-298-15080	Sequence 15080, A	676	29	55.8	108	11	US-11-188-298-15080	Sequence 5872, Ap
604	29	55.8	231	11	US-11-188-298-3441	Sequence 3441, Ap	677	29	55.8	110	11	US-11-188-298-5672	Sequence 5872, Ap
605	29	55.8	268	11	US-11-087-099-402	Sequence 402, App	678	29	55.8	110	11	US-11-188-298-5672	Sequence 5872, Ap

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681	28	53.8	129	9	US-11-873-528-137	Sequence 137, Appl	754	28	53.8	367	11	US-11-821-234-1058	Sequence 1058, Ap
682	28	53.8	132	9	US-11-073-605-15	Sequence 15, Appl	755	28	53.8	367	11	US-11-188-298-6832	Sequence 6832, Ap
683	28	53.8	132	11	US-11-064-774A-151	Sequence 151, Appl	756	28	53.8	367	11	US-11-188-298-14001	Sequence 14001, A
684	28	53.8	132	11	US-11-075-047A-93	Sequence 93, Appl	757	28	53.8	367	11	US-11-188-298-16726	Sequence 16726, A
685	28	53.8	137	11	US-11-188-298-4438	Sequence 4438, Ap	758	28	53.8	371	9	US-10-995-561-572	Sequence 572, Appl
686	28	53.8	147	11	US-11-045-004-1763	Sequence 1763, Ap	759	28	53.8	372	11	US-11-096-568A-32488	Sequence 32488, A
687	28	53.8	151	9	US-10-530-253-21	Sequence 21, Appl	760	28	53.8	372	11	US-11-188-298-14016	Sequence 14016, A
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689	28	53.8	157	11	US-11-079-463-6149	Sequence 6149, Ap	762	28	53.8	375	9	US-11-087-099-1257	Sequence 1257, Ap
690	28	53.8	159	11	US-11-188-298-10507	Sequence 10507, A	763	28	53.8	375	9	US-10-467-657-1736	Sequence 1736, Appl
691	28	53.8	161	11	US-11-188-298-5940	Sequence 5940, Ap	764	28	53.8	380	11	US-11-180-004-16	Sequence 16, Appl
692	28	53.8	161	11	US-11-188-298-8929	Sequence 8929, Ap	765	28	53.8	380	11	US-11-096-568A-23147	Sequence 23147, A
693	28	53.8	161	11	US-11-188-298-12756	Sequence 12756, A	766	28	53.8	384	11	US-11-096-568A-11063	Sequence 11063, A
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696	28	53.8	164	11	US-11-188-298-11068	Sequence 11068, A	769	28	53.8	392	11	US-11-087-099-9859	Sequence 9859, Ap
697	28	53.8	164	11	US-11-188-298-11347	Sequence 11347, A	770	28	53.8	392	11	US-11-096-568A-11062	Sequence 11062, A
698	28	53.8	164	11	US-11-188-298-22366	Sequence 22366, A	771	28	53.8	392	11	US-11-079-463-8230	Sequence 8230, Ap
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701	28	53.8	204	11	US-11-188-298-21313	Sequence 21313, A	774	28	53.8	398	11	US-11-087-099-9003	Sequence 9003, Ap
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703	28	53.8	224	11	US-11-096-568A-25751	Sequence 25751, A	776	28	53.8	403	11	US-11-096-568A-32486	Sequence 32486, A
704	28	53.8	237	11	US-11-264-096-1316	Sequence 1316, Ap	777	28	53.8	414	11	US-11-087-099-3464	Sequence 3464, Ap
705	28	53.8	245	11	US-11-188-298-16396	Sequence 16396, Ap	778	28	53.8	419	11	US-11-087-099-8659	Sequence 8659, Ap
706	28	53.8	251	11	US-11-096-568A-21502	Sequence 21502, A	779	28	53.8	420	11	US-11-096-568A-11061	Sequence 11061, A
707	28	53.8	251	11	US-11-188-298-14674	Sequence 14674, A	780	28	53.8	423	11	US-11-087-099-570	Sequence 570, Appl
708	28	53.8	256	11	US-11-096-568A-23905	Sequence 23905, A	781	28	53.8	423	11	US-11-087-099-12261	Sequence 12261, A
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710	28	53.8	266	11	US-11-241-056-13	Sequence 13, Appl	783	28	53.8	423	11	US-11-188-298-129321	Sequence 129321, A
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713	28	53.8	275	11	US-11-241-056-8	Sequence 8, Appl1	786	28	53.8	432	11	US-11-096-568A-1791	Sequence 1791, Ap
714	28	53.8	289	11	US-11-098-686-10602	Sequence 10602, A	787	28	53.8	431	9	US-10-821-234-1285	Sequence 1285, Ap
715	28	53.8	293	11	US-11-188-298-2608	Sequence 2608, Ap	788	28	53.8	437	11	US-11-188-298-18255	Sequence 18255, A
716	28	53.8	295	11	US-11-096-568A-21501	Sequence 21501, A	789	28	53.8	455	11	US-11-072-512-2644	Sequence 2644, Ap
717	28	53.8	295	11	US-11-172-740-1726	Sequence 1726, Ap	790	28	53.8	460	11	US-11-072-512-2784	Sequence 2784, Ap
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719	28	53.8	313	11	US-11-188-298-17411	Sequence 17411, A	792	28	53.8	461	11	US-11-188-298-110851	Sequence 110851, A
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722	28	53.8	320	11	US-11-096-568A-25656	Sequence 25656, A	795	28	53.8	466	11	US-11-087-099-6659	Sequence 6659, Ap
723	28	53.8	328	11	US-11-096-568A-5465	Sequence 5465, Ap	796	28	53.8	489	11	US-11-079-463-6538	Sequence 6538, Ap
724	28	53.8	338	11	US-11-096-568A-5464	Sequence 5464, Appl	797	28	53.8	502	11	US-11-199-233-13	Sequence 13, Appl
725	28	53.8	339	11	US-11-229-371-74	Sequence 74, Appl	798	28	53.8	531	9	US-10-880-881-41	Sequence 41, Appl
726	28	53.8	339	11	US-11-228-923-74	Sequence 74, Appl	799	28	53.8	545	11	US-11-188-298-17504	Sequence 17504, A
727	28	53.8	339	11	US-11-238-875-74	Sequence 74, Appl	800	28	53.8	551	9	US-10-880-881-2	Sequence 2, Appl1
728	28	53.8	340	9	US-10-506-454-61	Sequence 61, Appl	801	28	53.8	551	9	US-10-880-881-8	Sequence 8, Appl
729	28	53.8	343	8	US-10-511-937-2511	Sequence 2511, Ap	802	28	53.8	552	9	US-10-880-881-17	Sequence 17, Appl
730	28	53.8	344	11	US-11-045-004-1788	Sequence 1788, Ap	803	28	53.8	570	9	US-10-821-234-1601	Sequence 1601, Ap
731	28	53.8	345	11	US-11-087-099-6778	Sequence 6778, Ap	804	28	53.8	577	11	US-11-079-463-7370	Sequence 7370, Ap
732	28	53.8	346	11	US-11-087-099-6336	Sequence 6336, Ap	805	28	53.8	607	11	US-11-188-298-1216	Sequence 1216, Ap
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ALIGNMENTS

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; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-13

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Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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; GENERAL INFORMATION:
; APPLICANT: HealtBank Biotech CO. LTD.
; TITLE OF INVENTION: Fusion protein for inhibiting cervical cancer
; FILE REFERENCE: P/819/0613
; CURRENT APPLICATION NUMBER: US/11/206,138
; CURRENT FILING DATE: 2005-08-18
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.3
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US-11-206-138-3

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; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
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; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
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;; TYPE: PRT
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US-10-530-253-7
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; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
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; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 248

;; TYPE: PRT
;; ORGANISM: Human papillomavirus type 16
US-10-530-253-7

Query Match 100.0%; Score 52; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.016;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PLCDLLIRC 9
|||
Db 192 PLCDLLIRC 200

RESULT 7
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-9

Query Match 100.0%; Score 52; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.016;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PLCDLLIRC 9
|||
Db 192 PLCDLLIRC 200

RESULT 8
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-11

Query Match 100.0%; Score 52; DB 9; Length 248;

Best Local Similarity 100.0%; Pred. No. 0.016;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PLCDLLIRC 9
|||
Db 192 PLCDLLIRC 200

RESULT 9

US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
; APPLICANT: PANQ, XIAOWU
; TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
; FILE REFERENCE: 116620-003
; CURRENT APPLICATION NUMBER: US/11/192,923A
; PRIOR FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: CN 03115272.4
; PRIOR FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: CN 03115273.2
; PRIOR FILING DATE: 2003-01-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-11-192-923A-2

Query Match 100.0%; Score 52; DB 11; Length 256;
Best Local Similarity 100.0%; Pred. No. 0.017;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PLCDLLIRC 9
|||
Db 200 PLCDLLIRC 208

RESULT 10

US-10-530-061-497
; Sequence 497, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SIDNEY, JOHN
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 497
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-497

Query Match 86.5%; Score 45; DB 9; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.018;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 LCDLLIRC 9
|||
Db 2 LCDLLIRC 9

RESULT 11

US-10-530-253-23
; Sequence 23, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casaretti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 23
; LENGTH: 155
; TYPE: PRT
; ORGANISM: Human papillomavirus type 56
US-10-530-253-23

Query Match 86.5%; Score 45; DB 9; Length 155;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 LCDLLIRC 9
|||
Db 99 LCDLLIRC 106

RESULT 12

US-10-530-253-16
; Sequence 16, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casaretti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 16
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 31
US-10-530-253-16

Query Match 82.7%; Score 43; DB 9; Length 149;
Best Local Similarity 87.5%; Pred. No. 0.49;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 LCDLLIRC 9
|||
Db 96 LCDLLIRC 103

RESULT 13

US-11-096-568A-32096
; Sequence 32096, Application US/11096568A


```
Publication No. US20060048240A1
GENERAL INFORMATION:
APPLICANT: Alexandrov, Nickolai et al.
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
FILE REFERENCE: 2750-1592PUS2
CURRENT APPLICATION NUMBER: US/11/096,568A
CURRENT FILING DATE: 2005-04-01
NUMBER OF SEQ ID NOS: 34471
SEQ ID NO 32096
LENGTH: 838
TYPE: PRT
ORGANISM: Arabidopsis thaliana
FEATURE:
NAME/KEY: misc.feature
LOCATION: (1)..(838)
OTHER INFORMATION: Ceres Seq. ID no. 15221081
US-11-096-568A-32096

Query Match
Best Local Similarity 80.8%; Score 42; DB 11; Length 838;
Best Local Similarity 77.8%; Pred. No. 3.8;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 PLCDLIRRC 9
Db 145 PLCDVLRRC 153

RESULT 14
US-11-096-568A-32095
Sequence 32095, Application US/11096568A
Publication No. US20060048240A1
GENERAL INFORMATION:
APPLICANT: Alexandrov, Nickolai et al.
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
FILE REFERENCE: 2750-1592PUS2
CURRENT APPLICATION NUMBER: US/11/096,568A
CURRENT FILING DATE: 2005-04-01
NUMBER OF SEQ ID NOS: 34471
SEQ ID NO 32095
LENGTH: 917
TYPE: PRT
ORGANISM: Arabidopsis thaliana
FEATURE:
NAME/KEY: misc.feature
LOCATION: (1)..(917)
OTHER INFORMATION: Ceres Seq. ID no. 15221080
US-11-096-568A-32095

Query Match
Best Local Similarity 80.8%; Score 42; DB 11; Length 917;
Best Local Similarity 77.8%; Pred. No. 4.2;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 PLCDLIRRC 9
Db 224 PLCDVLRRC 232

RESULT 15
US-11-096-568A-32094
Sequence 32094, Application US/11096568A
Publication No. US20060048240A1
GENERAL INFORMATION:
APPLICANT: Alexandrov, Nickolai et al.
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
FILE REFERENCE: 2750-1592PUS2
CURRENT APPLICATION NUMBER: US/11/096,568A
CURRENT FILING DATE: 2005-04-01
NUMBER OF SEQ ID NOS: 34471
SEQ ID NO 32094
LENGTH: 949
```

```
TYPE: PRT
ORGANISM: Arabidopsis thaliana
FEATURE:
NAME/KEY: misc.feature
LOCATION: (1)..(949)
OTHER INFORMATION: Ceres Seq. ID no. 15221079
FEATURE:
NAME/KEY: misc.feature
LOCATION: (1)..(1)
OTHER INFORMATION: Xaa is any aa, unknown or other
US-11-096-568A-32094

Query Match
Best Local Similarity 80.8%; Score 42; DB 11; Length 949;
Best Local Similarity 77.8%; Pred. No. 4.3;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 PLCDLIRRC 9
Db 256 PLCDVLRRC 264

RESULT 16
US-10-530-061-782
Sequence 782, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.033US02/EKS/M-W
CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 782
LENGTH: 11
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-782

Query Match
Best Local Similarity 73.1%; Score 38; DB 9; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.36;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PLCDLIRRC 7
Db 5 PLCDLIRRC 11

RESULT 17
US-10-530-253-18
Sequence 18, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Casasetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M37-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
```

NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 18
LENGTH: 149
TYPE: PRT
ORGANISM: Human papillomavirus type 35
US-10-530-253-18

Query Match 73.1%; Score 38; DB 9; Length 149;
Best Local Similarity 87.5%; Pred. No. 4.2;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 LCDLIRC 9
Db 96 LCHLIRC 103

RESULT 18
US-10-530-061-642
Sequence 642, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.03US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 642
LENGTH: 9
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-642

Query Match 69.2%; Score 36; DB 9; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 LCDLIRC 8
Db 3 LCDLIRC 9

RESULT 19
US-10-530-253-25
Sequence 25, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Casaccia, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/1004137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 25
LENGTH: 160

TYPE: PRT
ORGANISM: Human papillomavirus type 59
US-10-530-253-25

Query Match 69.2%; Score 36; DB 9; Length 160;
Best Local Similarity 77.8%; Pred. No. 11;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 PLCDLIRC 9
Db 97 PLHLLIRC 105

RESULT 20
US-10-530-061-75
Sequence 75, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.03US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 75
LENGTH: 9
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-75

Query Match 67.3%; Score 35; DB 9; Length 9;
Best Local Similarity 87.5%; Pred. No. 1.9e+05;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 LCDLIRC 9
Db 1 LTLDLIRC 8

RESULT 21
US-10-530-061-126
Sequence 126, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.03US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 126
LENGTH: 9
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-126

Query Match 67.3%; Score 35; DB 9; Length 9;
Best Local Similarity 87.5%; Pred. No. 1.9e+05;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 LCDLLIRC 9
Db 1 LTDLIRC 8

RESULT 22

US-11-079-463-10174
; Sequence 10174, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRA
; FILE REFERENCE: PAT#00-03DIV2
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 10174
; LENGTH: 183
; TYPE: PRT
; ORGANISM: B. fragilis
US-11-079-463-10174

Query Match 67.3%; Score 35; DB 11; Length 183;
Best Local Similarity 55.6%; Pred. No. 19;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 PLCDLLIRC 9
Db 64 PTELTIVRC 72

RESULT 23

US-11-087-099-11058
; Sequence 11058, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 11058
; LENGTH: 225
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(225)
; OTHER INFORMATION: unsure at all Xaa locations
US-11-087-099-11058

Query Match 67.3%; Score 35; DB 11; Length 225;
Best Local Similarity 55.6%; Pred. No. 23;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 PLCDLLIRC 9
Db 22 PBCSIIIRC 30

RESULT 24

US-11-072-512-3074

; Sequence 3074, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
; APPLICANT: ISOALI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: SUGIYAMA, TETSUJI
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOKYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512
; CURRENT FILING DATE: 2005-03-07
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: JP 2001-379298
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3074
; LENGTH: 407
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-072-512-3074

Query Match 67.3%; Score 35; DB 11; Length 407;
Best Local Similarity 66.7%; Pred. No. 40;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 PLCDLLIRC 9
Db 279 PCTLTIRC 287

RESULT 25

US-11-188-298-13965
; Sequence 13965, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 13965
; LENGTH: 550
; TYPE: PRT
; ORGANISM: Actinobacillus pleuropneumoniae serovar 1 str. 4074
US-11-188-298-13965

Query Match 67.3%; Score 35; DB 11; Length 550;
Best Local Similarity 85.7%; Pred. No. 53;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 CDLLIRC 9
Db 263 CDLLIRC 269

```
RESULT 26
US-11-188-298-9296
; Sequence 9296, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 9296
; LENGTH: 558
; TYPE: PRT
; ORGANISM: Haemophilus somnus 2336
US-11-188-298-9296

Query Match      67.3%; Score 35; DB 11; Length 558;
Best Local Similarity 85.7%; Pred. No. 54;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      3 CDLIRRC 9
      |||||
Db      269 CDLIRAC 275

RESULT 27
US-11-188-298-11552
; Sequence 11552, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 11552
; LENGTH: 558
; TYPE: PRT
; ORGANISM: Haemophilus somnus 123PT
US-11-188-298-11552

Query Match      67.3%; Score 35; DB 11; Length 558;
Best Local Similarity 85.7%; Pred. No. 54;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      3 CDLIRRC 9
      |||||
Db      269 CDLIRAC 275

RESULT 28
US-10-530-061-1680
; Sequence 1680, Application US/1053061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
```

```
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1680
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1680

Query Match      65.4%; Score 34; DB 9; Length 15;
Best Local Similarity 66.7%; Pred. No. 2.7;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 PLCDLIRRC 9
      ||::|||
Db      3 PLNEILIRRC 11

RESULT 29
US-10-530-253-17
; Sequence 17, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 17
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 33
US-10-530-253-17

Query Match      65.4%; Score 34; DB 9; Length 149;
Best Local Similarity 66.7%; Pred. No. 24;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 PLCDLIRRC 9
      ||::|||
Db      95 PLNEILIRRC 103

RESULT 30
US-11-098-686-11255
; Sequence 11255, Application US/11098686
; Publication No. US20060024696A1
; GENERAL INFORMATION:
; APPLICANT: Kapur, Vivek and Gebhart, Connie J.
; TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
; FILE REFERENCE: 09531-128001
; CURRENT APPLICATION NUMBER: US/11/098,686
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31318
; PRIOR FILING DATE: 2003-10-01
; PRIOR APPLICATION NUMBER: US 60/416,395
; PRIOR FILING DATE: 2002-10-04
; NUMBER OF SEQ ID NOS: 11433
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11255
; LENGTH: 211
; TYPE: PRT
```

ORGANISM: Lawsonia intracellularis
US-11-098-686-11255

Query Match
Best Local Similarity 65.4%; Score 34; DB 11; Length 211;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 PLCDLLI 7
DB 155 PLCDPLI 161

RESULT 31
US-11-087-099-11319
Sequence 11319, Application US/11087099
Publication No. US20060041961A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: Genes and Uses for Plant Improvement
FILE REFERENCE: 38-21(53450)B EP
CURRENT APPLICATION NUMBER: US/11/087,099
CURRENT FILING DATE: 2005-03-22
NUMBER OF SEQ ID NOS: 12464
SEQ ID NO 11319
LENGTH: 321
TYPE: PRT
ORGANISM: Caulobacter crescentus CB15
US-11-087-099-11319

Query Match
Best Local Similarity 100.0%; Score 34; DB 11; Length 321;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PLCDLLI 6
DB 6 PLCDLLI 11

RESULT 32
US-11-087-099-8723
Sequence 8723, Application US/11087099
Publication No. US20060041961A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: Genes and Uses for Plant Improvement
FILE REFERENCE: 38-21(53450)B EP
CURRENT APPLICATION NUMBER: US/11/087,099
CURRENT FILING DATE: 2005-03-22
NUMBER OF SEQ ID NOS: 12464
SEQ ID NO 8723
LENGTH: 392
TYPE: PRT
ORGANISM: Aspicarpa hitella
US-11-087-099-8723

Query Match
Best Local Similarity 65.4%; Score 34; DB 11; Length 392;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 LCDLLIR 8
DB 236 LCDLLIR 242

RESULT 33
US-11-087-099-784
Sequence 784, Application US/11087099
Publication No. US20060041961A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: Genes and Uses for Plant Improvement
FILE REFERENCE: 38-21(53450)B EP
CURRENT APPLICATION NUMBER: US/11/087,099

CURRENT FILING DATE: 2005-03-22
NUMBER OF SEQ ID NOS: 12464
SEQ ID NO 784
LENGTH: 393
TYPE: PRT
ORGANISM: Sporobolus giganteus
US-11-087-099-784

Query Match
Best Local Similarity 65.4%; Score 34; DB 11; Length 393;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 LCDLLIR 8
DB 236 LCDLLIR 242

RESULT 34
US-11-087-099-11887
Sequence 11887, Application US/11087099
Publication No. US20060041961A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: Genes and Uses for Plant Improvement
FILE REFERENCE: 38-21(53450)B EP
CURRENT APPLICATION NUMBER: US/11/087,099
CURRENT FILING DATE: 2005-03-22
NUMBER OF SEQ ID NOS: 12464
SEQ ID NO 11887
LENGTH: 394
TYPE: PRT
ORGANISM: Lardizabala bitermata
US-11-087-099-11887

Query Match
Best Local Similarity 65.4%; Score 34; DB 11; Length 394;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 LCDLLIR 8
DB 237 LCDLLIR 243

RESULT 35
US-11-072-512-2810
Sequence 2810, Application US/11072512
Publication No. US20060029945A1
GENERAL INFORMATION:
APPLICANT: ISOGAI, TAKAO
APPLICANT: SUGIYAMA, TOMOYASU
APPLICANT: OTSUKI, TETSUJI
APPLICANT: WAKAMATSU, AI
APPLICANT: SATO, HIROYUKI
APPLICANT: ISHII, SHIZUKO
APPLICANT: YAMAMOTO, JUN-ICHI
APPLICANT: ISONO, YUUKO
APPLICANT: HIO, YUKI
APPLICANT: OTSUKA, KAORU
APPLICANT: NAGAI, KEIICHI
APPLICANT: IRIE, RYOTARO
APPLICANT: TAMECHIKA, ICHIRO
APPLICANT: SEKI, NAOHIKO
APPLICANT: YOSHIKAWA, TSUTOMU
APPLICANT: OTSUKA, MOTOYUKI
APPLICANT: NAGAHARI, KENJI
APPLICANT: MASUHO, YASUHIKO
TITLE OF INVENTION: Novel full length cDNA
FILE REFERENCE: 084335-0191
CURRENT APPLICATION NUMBER: US/11/072,512
CURRENT FILING DATE: 2005-03-07
PRIOR APPLICATION NUMBER: US 60/350,978
PRIOR FILING DATE: 2002-01-25
PRIOR APPLICATION NUMBER: JP 2001-379298

;; PRIOR FILING DATE: 2001-11-05
;; NUMBER OF SEQ ID NOS: 4096
;; SOFTWARE: Patentin Ver. 2.1
;; SEQ ID NO 2810
;; LENGTH: 795
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-11-072-512-2810

Query Match 65.4%; Score 34; DB 11; Length 795;
Best Local Similarity 85.7%; Pred. No. 1.2e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 LCDLIR 8
Db 313 LCDLIR 319

RESULT 36
US-10-530-061-643
; Sequence 643, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/W-M
; CURRENT FILING DATE: 2005-04-04
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 643
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-643

Query Match 63.5%; Score 33; DB 9; Length 9;
Best Local Similarity 85.7%; Pred. No. 1.9e+05;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 LCDLIR 8
Db 3 LCDLIR 9

RESULT 37
US-11-188-298-4940
; Sequence 4940, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT FILING DATE: 2005-07-22
; PRIOR FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 4940
; LENGTH: 282
; TYPE: PRT
; ORGANISM: Microbulbifer degradans 2-40
US-11-188-298-4940

Query Match 63.5%; Score 33; DB 11; Length 282;

Best Local Similarity 50.0%; Pred. No. 66;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 2 LCDLIR 9
Db 97 VCDLIVSC 104

RESULT 38
US-11-108-528-54
; Sequence 54, Application US/11108528
; Publication No. US20050261189A1
; GENERAL INFORMATION:
; APPLICANT: Larsen, Glenn
; APPLICANT: Marvin, Martha
; APPLICANT: Li, Dean Y.
; APPLICANT: Wang, Elizabeth
; APPLICANT: Chen, C. M. Amy
; APPLICANT: Shamah, Steven M.
; TITLE OF INVENTION: METHODS OF PROMOTING CARDIAC CELL
; FILE REFERENCE: HYDR-P01-041
; CURRENT FILING DATE: 2005-04-18
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 60/563,137
; PRIOR FILING DATE: 2004-08-02
; NUMBER OF SEQ ID NOS: 86
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54
; LENGTH: 350
; TYPE: PRT
; ORGANISM: Mouse
US-11-108-528-54

Query Match 63.5%; Score 33; DB 11; Length 350;
Best Local Similarity 55.6%; Pred. No. 82;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 PLCDLIR 9
Db 6 PVDLIVTC 14

RESULT 39
US-11-087-099-12421
; Sequence 12421, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT FILING DATE: 2005-03-22
; PRIOR FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 12421
; LENGTH: 393
; TYPE: PRT
; ORGANISM: Paniscum capillare
US-11-087-099-12421

Query Match 63.5%; Score 33; DB 11; Length 393;
Best Local Similarity 71.4%; Pred. No. 91;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 LCDLIR 8
Db 236 LCDLIR 242

RESULT 40
US-11-087-099-12016

```
; Sequence 12016, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 12016
; LENGTH: 1129
; TYPE: PRT
; ORGANISM: Petroselinum crispum
US-11-087-099-12016

Query Match      63.5%; Score 33; DB 11; Length 1129;
Best Local Similarity 85.7%; Pred. No. 2.5e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

QY 2 LCDLIR 8
DB 417 LCDLIR 423

```
RESULT 41
US-11-108-172-1116
; Sequence 1116, Application US/1108172
; Publication No. US20050260177A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tonglong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole L.
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aljun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Skeiky, Yasir A. W.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedvick Thomas S.
; APPLICANT: Carter, Derrick
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C15
; CURRENT APPLICATION NUMBER: US/11/108,172
; CURRENT FILING DATE: 2005-04-15
; PRIOR APPLICATION NUMBER: US 10/025,380
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: US 09/922,217
; PRIOR FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: US 09/833,263
; PRIOR FILING DATE: 2001-04-10
; PRIOR APPLICATION NUMBER: US 09/649,811
; PRIOR FILING DATE: 2000-08-28
; PRIOR APPLICATION NUMBER: US 09/609,448
; PRIOR FILING DATE: 2000-06-29
; PRIOR APPLICATION NUMBER: US 09/575,251
; PRIOR FILING DATE: 2000-05-19
; PRIOR APPLICATION NUMBER: US 09/519,444
; PRIOR FILING DATE: 2000-03-06
; PRIOR APPLICATION NUMBER: US 09/504,629
; PRIOR FILING DATE: 2000-02-15
; PRIOR APPLICATION NUMBER: US 09/480,321
; PRIOR FILING DATE: 2000-01-10
; PRIOR APPLICATION NUMBER: US 09/476,296
; PRIOR FILING DATE: 1999-12-30
; Remaining Prior Application data removed - See file wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1130
; SOFTWARE: FastSeq for Windows Version 4.0
```

```
; SEQ ID NO 1116
; LENGTH: 5405
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-108-172-1116

Query Match      63.5%; Score 33; DB 11; Length 5405;
Best Local Similarity 66.7%; Pred. No. 1.1e+03;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

QY 1 PLCDLIRC 9
DB 2409 PLCDLIRC 2417

```
RESULT 42
US-10-530-061-484
; Sequence 484, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 484
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-484
```

```
Query Match      61.5%; Score 32; DB 9; Length 11;
Best Local Similarity 100.0%; Pred. No. 4.8;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

QY 4 DLLIRC 9
DB 1 DLLIRC 6

```
RESULT 43
US-11-144-947-389
; Sequence 389, Application US/11144947
; Publication No. US20060084082A1
; GENERAL INFORMATION:
; APPLICANT: Ruden et al.
; TITLE OF INVENTION: 186 Human Secreted proteins
; FILE REFERENCE: P2002P2C2
; CURRENT APPLICATION NUMBER: US/11/144,947
; CURRENT FILING DATE: 2005-06-06
; PRIOR APPLICATION NUMBER: 09/882,171
; PRIOR FILING DATE: 2005-06-03
; PRIOR APPLICATION NUMBER: 09/809,391
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/190,068
; PRIOR FILING DATE: 2000-03-17
; PRIOR APPLICATION NUMBER: 10/164,861
; PRIOR FILING DATE: 2002-06-10
; PRIOR APPLICATION NUMBER: 09/149,476
; PRIOR FILING DATE: 1998-09-08
; PRIOR APPLICATION NUMBER: PCT/US98/04493
; PRIOR FILING DATE: 1998-03-06
; PRIOR APPLICATION NUMBER: 60/040,162
```

```

; PRIOR FILING DATE: 1997-03-07
; PRIOR APPLICATION NUMBER: 60/040,333
; PRIOR FILING DATE: 1997-03-07
; PRIOR APPLICATION NUMBER: 60/038,621
; PRIOR FILING DATE: 1997-03-07
; PRIOR APPLICATION NUMBER: 60/040,626
; PRIOR FILING DATE: 1997-03-07
; Remaining Prior Application data removed - See file Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 761
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 389
; LENGTH: 29
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-144-947-389
```

```

Query Match          61.5%; Score 32; DB 11; Length 29;
Best Local Similarity 71.4%; Pred. No. 12;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy      1 PCDLLI 7
         |||||
Db      5 PYCDLLV 11
```

```

RESULT 44
US-10-530-253-39
; Sequence 39, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasseti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Fullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 39
; LENGTH: 152
; TYPE: PRT
; ORGANISM: Human papillomavirus
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(152)
; OTHER INFORMATION: where Xaa is any amino acid
US-10-530-253-39
```

```

Query Match          61.5%; Score 32; DB 9; Length 152;
Best Local Similarity 75.0%; Pred. No. 57;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy      2 LCDLLIRC 9
         |||||
Db      98 LXBLLIRC 105
```

```

RESULT 45
US-11-072-512-2077
; Sequence 2077, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
```

```

; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
; APPLICANT: YOSHITAKA, TSUTOMU
; APPLICANT: OTSUKA, MOTOKYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512
; PRIOR FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2077
; LENGTH: 167
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-072-512-2077
```

```

Query Match          61.5%; Score 32; DB 11; Length 167;
Best Local Similarity 71.4%; Pred. No. 62;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy      3 CDLLIRC 9
         |||||
Db      71 CPLLLIRC 77
```

```

RESULT 46
US-11-087-099-3371
; Sequence 3371, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; PRIOR FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 3371
; LENGTH: 188
; TYPE: PRT
; ORGANISM: Carmichaelia sp. 'Lavin 6201'
US-11-087-099-3371
```

```

Query Match          61.5%; Score 32; DB 11; Length 188;
Best Local Similarity 71.4%; Pred. No. 70;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      2 LCDLLIR 8
         |||||
Db      171 LCDWLLIR 177
```

```

RESULT 47
US-11-087-099-9142
; Sequence 9142, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
```


;; CURRENT FILING DATE: 2005-03-22
;; NUMBER OF SEQ ID NOS: 12464
;; SEQ ID NO 9142
;; LENGTH: 193
;; TYPE: PRT
;; ORGANISM: Enterolobium cyclocarpum
US-11-087-099-9142

Query Match 61.5%; Score 32; DB 11; Length 193;
Best Local Similarity 71.4%; Pred. No. 72;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 PLCDLIR 8
|||:|
Db 171 LCDMLLR 177

RESULT 48
US-11-096-568A-13496
; Sequence 13496, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-determined DNA Fragments and Corresponding Polypeptides
; TITLE OF INVENTION: Theby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 13496
; LENGTH: 219
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(219)
; OTHER INFORMATION: Ceres Seq. ID no. 15225255
US-11-096-568A-13496

Query Match 61.5%; Score 32; DB 11; Length 219;
Best Local Similarity 66.7%; Pred. No. 81;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 PLCDLIR 9
|||:|
Db 144 PLCKRLRRC 152

RESULT 49
US-11-096-568A-22356
; Sequence 22356, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-determined DNA Fragments and Corresponding Polypeptides
; TITLE OF INVENTION: Theby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 22356
; LENGTH: 227
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(227)
; OTHER INFORMATION: Ceres Seq. ID no. 12408616
US-11-096-568A-22356

Query Match 61.5%; Score 32; DB 11; Length 227;
Best Local Similarity 83.3%; Pred. No. 83;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

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Db 112 PMCDLIR 117

RESULT 50
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; Sequence 13495, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-determined DNA Fragments and Corresponding Polypeptides
; TITLE OF INVENTION: Theby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 13495
; LENGTH: 228
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(228)
; OTHER INFORMATION: Ceres Seq. ID no. 15225254
US-11-096-568A-13495

Query Match 61.5%; Score 32; DB 11; Length 228;
Best Local Similarity 66.7%; Pred. No. 84;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 PLCDLIR 9
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Db 153 PLCKRLRRC 161

Search completed: May 5, 2006, 07:45:54
Job time: 19.4 secs

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OW protein - protein search, using SW model

Run on: May 5, 2006, 02:25:57 ; Search time 20.7 Seconds
(without alignments)
35.946 Million cell updates/sec

Title: US-08-170-344-13
Perfect score: 48
Sequence: 1 TLHEMYLDL 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapect 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database : Issued_Patents_AA:*
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4: /cgn2_6/ptodata/1/1aa/PTMUS-COMB.pep:*
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6: /cgn2_6/ptodata/1/1aa/Backfill.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	48	100.0	9	1	US-08-787-547-105
2	48	100.0	9	2	US-08-197-484-69
3	48	100.0	9	2	US-10-365-908-4
4	48	100.0	9	4	PCT-US95-02121-69
5	48	100.0	10	2	US-10-365-908-4
6	48	100.0	18	2	US-08-075-541D-34
7	48	100.0	20	1	US-08-934-915-46
8	48	100.0	20	2	US-08-075-541D-43
9	48	100.0	20	2	US-08-075-541D-44
10	48	100.0	20	2	US-09-980-177A-69
11	48	100.0	23	2	US-09-980-523A-14
12	48	100.0	30	1	US-08-363-586-1
13	48	100.0	30	1	US-08-934-915-51
14	48	100.0	30	1	US-09-486-394-1
15	48	100.0	30	2	US-09-828-645-3
16	48	100.0	30	2	US-09-828-645-7
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19	48	100.0	98	2	US-09-382-616A-1
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22	48	100.0	98	2	US-09-613-303-8
23	48	100.0	98	2	US-09-566-420-19
24	48	100.0	98	2	US-09-986-118A-4
25	48	100.0	98	2	US-09-728-466-1
26	48	100.0	98	2	US-09-824-017-4
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35	100.0	172	2	US-09-359-382-12	Sequence 12, Appl
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37	100.0	198	2	US-09-613-303-35	Sequence 35, Appl
38	100.0	198	2	US-10-267-311-35	Sequence 1, Appl
39	100.0	220	2	US-09-485-885-8	Sequence 8, Appl
40	100.0	220	2	US-09-485-885-1	Sequence 1, Appl
41	100.0	239	2	US-09-485-885-12	Sequence 12, Appl
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45	100.0	253	1	US-08-725-776-20	Sequence 20, Appl
46	100.0	253	1	US-08-488-062-20	Sequence 20, Appl
47	100.0	263	1	US-08-117-083-9	Sequence 9, Appl
48	100.0	266	2	US-08-860-165-10	Sequence 10, Appl
49	100.0	266	2	US-09-359-382-10	Sequence 10, Appl
50	100.0	266	2	US-09-367-309A-1	Sequence 1, Appl
51	100.0	287	2	US-09-501-097A-25	Sequence 25, Appl
52	100.0	295	2	US-09-613-303-33	Sequence 33, Appl
53	100.0	295	2	US-10-267-311-33	Sequence 33, Appl
54	100.0	324	2	US-09-613-303-25	Sequence 25, Appl
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68	100.0	648	2	US-10-267-311-29	Sequence 29, Appl
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71	100.0	723	2	US-09-501-097A-20	Sequence 20, Appl
72	100.0	723	2	US-09-613-303-45	Sequence 45, Appl
73	100.0	724	2	US-10-267-311-45	Sequence 45, Appl
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78	79.2	10	2	US-10-365-908-11	Sequence 11, Appl
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92	68.8	216	2	US-09-270-767-60948	Sequence 7, Appl
93	68.8	520	2	US-09-270-767-45441	Sequence 45441, Appl
94	68.8	784	2	US-09-543-681A-7442	Sequence 7442, Appl
95	66.7	33	3	US-09-248-796A-15193	Sequence 15193, Appl
96	66.7	32	6	US-09-605-703B-2274	Sequence 2274, Appl
97	66.7	235	2	US-09-270-767-60286	Sequence 60286, Appl
98	66.7	250	2	US-09-902-540-13613	Sequence 13613, Appl
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103	32	66.7	472	2	US-09-605-703B-1428	Sequence 1428, Ap	176	30	62.5	684	2	US-08-965-762-2	Sequence 2, Appli
104	32	66.7	624	2	US-09-877-730-24	Sequence 24, Appl	177	30	62.5	684	2	US-09-911-927-2	Sequence 2, Appli
105	32	66.7	686	2	US-09-328-352-4303	Sequence 4303, Ap	178	30	62.5	684	2	US-09-911-882-2	Sequence 2, Appli
106	32	66.7	703	2	US-09-198-452A-490	Sequence 490, App	179	30	62.5	684	2	US-09-911-868-2	Sequence 2, Appli
107	32	66.7	703	2	US-09-438-185A-460	Sequence 460, App	180	30	62.5	742	1	US-07-921-807B-2	Sequence 2, Appli
108	32	66.7	712	2	US-09-877-730-22	Sequence 22, Appl	181	30	62.5	742	1	US-08-441-944A-2	Sequence 2, Appli
109	32	66.7	793	2	US-09-877-730-28	Sequence 28, Appl	182	30	62.5	745	2	US-09-270-767-45481	Sequence 45481, A
110	32	66.7	966	1	US-08-868-786-2	Sequence 2, Appli	183	30	62.5	962	2	US-09-248-796A-19159	Sequence 19159, A
111	32	66.7	983	2	US-09-394-200-2	Sequence 2, Appli	184	30	62.5	1464	1	US-08-026-138E-1	Sequence 1, Appli
112	32	66.7	983	2	US-10-047-757-2	Sequence 2, Appli	185	30	62.5	1464	2	US-09-922-011-1	Sequence 1, Appli
113	32	66.7	991	2	US-09-877-730-12	Sequence 12, Appl	186	30	62.5	3074	2	US-09-543-661A-5508	Sequence 5508, Ap
114	32	66.7	1069	2	US-09-877-730-2	Sequence 2, Appli	187	29	60.4	9	2	US-10-365-908-45	Sequence 45, Appl
115	32	66.7	1072	2	US-09-877-730-18	Sequence 18, Appl	188	29	60.4	10	2	US-08-155-339A-80	Sequence 80, Appl
116	32	66.7	1150	2	US-09-877-730-8	Sequence 8, Appli	189	29	60.4	10	2	US-10-365-908-35	Sequence 35, Appl
117	32	66.7	1170	2	US-09-462-136-6	Sequence 6, Appli	190	29	60.4	29	2	US-09-270-767-83881	Sequence 38881, A
118	31	64.6	10	1	US-08-764-640-74	Sequence 74, Appl	191	29	60.4	29	2	US-09-270-767-53598	Sequence 53598, A
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121	31	64.6	10	2	US-09-516-704-74	Sequence 74, Appl	194	29	60.4	55	2	US-09-361-707-85	Sequence 85, Appl
122	31	64.6	10	2	US-09-549-090-74	Sequence 74, Appl	195	29	60.4	55	2	US-09-361-707-86	Sequence 86, Appl
123	31	64.6	63	2	US-09-832-230A-74	Sequence 74, Appl	196	29	60.4	55	2	US-09-361-707-87	Sequence 87, Appl
124	31	64.6	63	2	US-09-248-796A-26435	Sequence 26435, A	197	29	60.4	55	2	US-09-361-707-89	Sequence 89, Appl
125	31	64.6	95	1	US-08-455-896-7	Sequence 7, Appli	198	29	60.4	55	2	US-09-361-707-90	Sequence 90, Appl
126	31	64.6	95	1	US-08-933-148-7	Sequence 7, Appli	199	29	60.4	108	2	US-09-543-661A-4609	Sequence 4609, Ap
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129	31	64.6	95	2	US-08-821-451A-27	Sequence 27, Appl	202	29	60.4	125	2	US-09-513-999C-4270	Sequence 4270, Ap
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132	31	64.6	95	2	US-09-162-622-7	Sequence 7, Appli	205	29	60.4	145	2	US-09-694-127-5	Sequence 5, Appli
133	31	64.6	95	2	US-09-509-015-7	Sequence 7, Appli	206	29	60.4	156	2	US-09-270-767-48299	Sequence 48299, A
134	31	64.6	95	2	US-09-985-911-27	Sequence 27, Appli	207	29	60.4	156	2	US-09-107-433-4384	Sequence 4384, Ap
135	31	64.6	95	4	PCT-US96-08235-7	Sequence 7, Appli	208	29	60.4	160	2	US-09-270-767-33082	Sequence 33082, A
136	31	64.6	100	2	US-09-134-001C-4673	Sequence 4673, Ap	209	29	60.4	191	2	US-09-443-011A-24	Sequence 24, Appl
137	31	64.6	124	2	US-09-621-976-4612	Sequence 4612, Ap	210	29	60.4	230	2	US-09-270-767-44142	Sequence 44142, A
138	31	64.6	128	1	US-08-946-528-5	Sequence 5, Appli	211	29	60.4	232	2	US-09-338-352-1274	Sequence 7274, Ap
139	31	64.6	128	1	US-09-513-999C-8060	Sequence 8060, Ap	212	29	60.4	237	2	US-09-538-092-404	Sequence 404, App
140	31	64.6	172	2	US-09-634-238-343	Sequence 343, App	213	29	60.4	240	2	US-09-248-796A-20107	Sequence 20107, A
141	31	64.6	233	2	US-09-270-767-32461	Sequence 32461, A	214	29	60.4	260	2	US-09-443-011A-10	Sequence 10, Appl
142	31	64.6	233	2	US-09-270-767-47678	Sequence 47678, A	215	29	60.4	283	2	US-09-252-991A-73535	Sequence 73535, A
143	31	64.6	234	2	US-09-107-532A-6523	Sequence 6523, Ap	216	29	60.4	284	2	US-09-489-039A-8001	Sequence 8001, Ap
144	31	64.6	253	2	US-09-107-532A-5072	Sequence 5072, Ap	217	29	60.4	285	2	US-09-769-787-11	Sequence 31, Appl
145	31	64.6	271	2	US-09-107-532A-5071	Sequence 5071, Ap	218	29	60.4	304	2	US-09-588-092-53	Sequence 53, Appl
146	31	64.6	305	2	US-09-634-238-320	Sequence 320, App	219	29	60.4	306	2	US-09-583-110-2708	Sequence 2708, Ap
147	31	64.6	348	2	US-09-134-000C-4770	Sequence 4770, Ap	220	29	60.4	309	2	US-09-522-714-10	Sequence 10, Appl
148	31	64.6	425	2	US-09-634-238-321	Sequence 321, App	221	29	60.4	315	2	US-09-438-185A-26	Sequence 26, Appl
149	31	64.6	810	2	US-09-538-092-5596	Sequence 596, App	222	29	60.4	317	2	US-09-328-352-7345	Sequence 7345, Ap
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152	30	62.5	43	2	US-08-857-076-77	Sequence 77, Appl	225	29	60.4	337	2	US-09-198-452A-664	Sequence 664, App
153	30	62.5	43	2	US-09-205-658-77	Sequence 77, Appl	226	29	60.4	344	2	US-09-389-341-72	Sequence 72, Appl
154	30	62.5	55	2	US-09-361-707-88	Sequence 88, Appl	227	29	60.4	358	2	US-09-248-796A-19596	Sequence 19596, A
155	30	62.5	62	2	US-09-248-796A-55586	Sequence 25586, A	228	29	60.4	369	2	US-09-252-991A-16883	Sequence 16883, A
156	30	62.5	87	2	US-09-328-352-7003	Sequence 7003, Ap	229	29	60.4	379	2	US-09-160-827-12	Sequence 12, Appl
157	30	62.5	95	2	US-09-248-796A-27170	Sequence 27170, Ap	230	29	60.4	390	2	US-09-543-661A-7466	Sequence 7466, Ap
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159	30	62.5	137	2	US-09-270-767-48008	Sequence 48008, A	232	29	60.4	408	2	US-09-107-532A-3913	Sequence 3913, App
160	30	62.5	139	2	US-09-828-523A-24	Sequence 24, Appl	233	29	60.4	414	2	US-09-949-016-11695	Sequence 11695, A
161	30	62.5	148	2	US-09-828-523A-94	Sequence 94, Appl	234	29	60.4	414	2	US-09-605-703B-908	Sequence 908, App
162	30	62.5	149	2	US-09-513-999C-4897	Sequence 4897, Ap	235	29	60.4	418	2	US-09-668-1888-99	Sequence 99, Appl
163	30	62.5	222	2	US-09-248-796A-19120	Sequence 19120, A	236	29	60.4	429	2	US-09-291-417D-99	Sequence 99, Appl
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165	30	62.5	400	2	US-09-252-991A-32149	Sequence 32149, A	238	29	60.4	434	2	US-09-408-020-14	Sequence 14, Appl
166	30	62.5	427	2	US-09-107-532A-4479	Sequence 4479, Ap	239	29	60.4	449	2	US-09-408-020-46	Sequence 46, Appl
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168	30	62.5	477	2	US-09-134-000C-4388	Sequence 4388, Ap	241	29	60.4	449	3	US-09-041-075A-21	Sequence 21, Appl
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170	30	62.5	502	1	US-08-328-322-21	Sequence 21, Appl	243	29	60.4	462	2	US-10-012-231A-212	Sequence 212, App
171	30	62.5	510	1	US-08-328-322-21	Sequence 21, Appl	244	29	60.4	462	2	US-10-015-389A-212	Sequence 212, App
172	30	62.5	536	2	US-09-922-011-2	Sequence 2, Appli	245	29	60.4	462	2	US-10-006-768A-212	Sequence 212, App
173	30	62.5	604	1	US-08-328-322-12	Sequence 12, Appl	246	29	60.4	462	2	US-10-015-671A-212	Sequence 212, App

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248	29	60.4	462	2	US-10-011-833A-212	Sequence 212, App	321	28	58.3	229	2	US-09-710-279-8818	Sequence 2819, Ap
249	29	60.4	462	2	US-10-006-041A-212	Sequence 212, App	322	28	58.3	233	2	US-09-543-661A-8339	Sequence 2818, Ap
250	29	60.4	462	2	US-10-012-064A-212	Sequence 212, App	323	28	58.3	238	2	US-09-568-733C-14	Sequence 14, Appl1
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252	29	60.4	601	2	US-09-270-767-42194	Sequence 42194, A	325	28	58.3	246	1	US-08-315-868A-6	Sequence 6, Appl1
253	29	60.4	602	2	US-09-569-037-6	Sequence 6, Appl1	326	28	58.3	246	2	US-08-495-819B-6	Sequence 6, Appl1
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256	29	60.4	664	2	US-09-605-703B-906	Sequence 906, App	329	28	58.3	260	2	US-09-489-039A-7490	Sequence 7490, Ap
257	29	60.4	684	2	US-09-134-001C-4775	Sequence 4775, Ap	330	28	58.3	261	2	US-09-443-041A-26	Sequence 26, Appl1
258	29	60.4	710	2	US-09-489-039A-14121	Sequence 14121, A	331	28	58.3	263	2	US-09-328-352-7488	Sequence 60274, A
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267	29	60.4	822	2	US-09-540-236-1951	Sequence 1951, Ap	340	28	58.3	292	2	US-09-519-223-19	Sequence 19, Appl1
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269	29	60.4	878	1	US-08-868-786-6	Sequence 6, Appl1	342	28	58.3	294	1	US-09-093-552-26	Sequence 26, Appl1
270	29	60.4	974	1	US-08-868-786-6	Sequence 6, Appl1	343	28	58.3	294	1	US-08-874-347-26	Sequence 26, Appl1
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272	29	60.4	987	1	US-08-436-054-6	Sequence 6, Appl1	345	28	58.3	294	2	US-08-093-726-4	Sequence 4, Appl1
273	29	60.4	987	1	PCT-US95-08812-6	Sequence 6, Appl1	346	28	58.3	298	1	US-08-096-043-4	Sequence 4, Appl1
274	29	60.4	990	2	US-09-949-016-7235	Sequence 7235, Ap	347	28	58.3	298	1	US-08-093-577-2	Sequence 4, Appl1
275	29	60.4	990	2	US-09-415-522-8	Sequence 8, Appl1	348	28	58.3	298	1	US-08-096-623A-4	Sequence 4, Appl1
276	29	60.4	1013	2	US-09-540-236-3740	Sequence 3740, Ap	349	28	58.3	302	1	US-07-783-705A-1	Sequence 1, Appl1
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279	29	60.4	1276	1	US-08-446-648-24	Sequence 24, Appl1	352	28	58.3	307	1	US-08-095-726-2	Sequence 2, Appl1
280	29	60.4	1276	2	US-09-982-610-24	Sequence 24, Appl1	353	28	58.3	307	1	US-08-096-043-2	Sequence 2, Appl1
281	29	60.4	1276	2	US-09-362-336A-4	Sequence 24, Appl1	354	28	58.3	307	1	US-08-093-577-2	Sequence 2, Appl1
282	29	60.4	1276	4	PCT-US95-04228-24	Sequence 24, Appl1	355	28	58.3	307	1	US-08-096-623A-2	Sequence 2, Appl1
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287	29	60.4	2787	2	US-09-345-041-15	Sequence 15, Appl1	360	28	58.3	330	2	US-09-801-861-9	Sequence 9, Appl1
288	29	60.4	2787	2	US-09-358-055B-15	Sequence 15, Appl1	361	28	58.3	330	2	US-09-801-861-9	Sequence 9, Appl1
289	29	60.4	2787	2	US-09-358-055B-15	Sequence 15, Appl1	362	28	58.3	330	2	US-09-801-861-9	Sequence 9, Appl1
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291	29	60.4	3174	1	US-08-477-451-3	Sequence 3, Appl1	364	28	58.3	330	2	US-10-224-562-8	Sequence 8, Appl1
292	29	60.4	5588	2	US-09-036-987A-6	Sequence 6, Appl1	365	28	58.3	330	2	US-10-224-562-8	Sequence 8, Appl1
293	29	60.4	5588	2	US-09-370-700-6	Sequence 6, Appl1	366	28	58.3	330	2	US-10-224-562-8	Sequence 8, Appl1
294	29	60.4	5588	2	US-09-603-207-6	Sequence 6, Appl1	367	28	58.3	330	2	US-10-224-562-8	Sequence 8, Appl1
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297	28	58.3	57	2	US-09-513-999C-7077	Sequence 7077, Ap	370	28	58.3	336	2	US-09-252-991A-24656	Sequence 24656, A
298	28	58.3	66	2	US-09-621-976-6696	Sequence 6696, Ap	371	28	58.3	336	2	US-09-252-991A-24656	Sequence 24656, A
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301	28	58.3	74	2	US-09-328-352-4428	Sequence 4428, Ap	374	28	58.3	350	2	US-09-252-991A-32992	Sequence 22992, A
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303	28	58.3	85	2	US-08-311-731A-100	Sequence 100, App	376	28	58.3	352	2	US-09-248-796A-15286	Sequence 15286, A
304	28	58.3	130	2	US-09-673-395A-523	Sequence 523, App	377	28	58.3	363	2	US-09-583-110-3098	Sequence 3098, Ap
305	28	58.3	132	2	US-09-125-642C-15	Sequence 15, Appl1	378	28	58.3	365	2	US-09-107-433-4709	Sequence 4709, Ap
306	28	58.3	132	2	US-09-431-888-11	Sequence 11, Appl1	379	28	58.3	368	2	US-09-107-433-4709	Sequence 14, Appl1
307	28	58.3	133	2	US-09-431-888-2	Sequence 11, Appl1	380	28	58.3	371	1	US-08-673-789-14	Sequence 8582, Ap
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309	28	58.3	150	2	US-09-513-999C-6406	Sequence 6406, Ap	382	28	58.3	378	2	US-09-270-767-32028	Sequence 47245, A
310	28	58.3	177	2	US-09-614-912-28	Sequence 28, Appl1	383	28	58.3	378	2	US-09-770-767-41745	Sequence 20241, A
311	28	58.3	180	2	US-09-248-796A-16904	Sequence 16904, A	384	28	58.3	383	2	US-09-248-796A-20241	Sequence 20241, A
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313	28	58.3	212	2	US-09-248-796A-22355	Sequence 22355, A	386	28	58.3	386	2	US-09-295-306-2	Sequence 2, Appl1
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316	28	58.3	223	2	US-09-710-279-1966	Sequence 1966, Ap	389	28	58.3	393	1	US-08-429-742-2	Sequence 2, Appl1
317	28	58.3	223	2	US-09-411-578-3	Sequence 3, Appl1	390	28	58.3	393	1	US-09-252-991A-28371	Sequence 28371, A
318	28	58.3	223	2	US-09-749-233-C	Sequence 7, Appl1	391	28	58.3	397	2	US-09-949-016-11445	Sequence 11445, A
319	28	58.3	226	1	US-07-828-798C-7	Sequence 7, Appl1	392	28	58.3	411	2	US-09-270-767-57994	Sequence 57994, A

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395	28	58.3	417	2	US-09-107-532A-6148	Sequence 1148, Ap	468	28	58.3	970	1	US-08-449-645A-11	Sequence 11, App1
396	28	58.3	423	2	US-08-855-910-13	Sequence 13, App1	469	28	58.3	970	1	US-08-702-367A-11	Sequence 11, App1
397	28	58.3	423	2	US-09-206-344A-2	Sequence 4, App1.i	470	28	58.3	970	4	PCT-US95-04681-11	Sequence 10, App1
398	28	58.3	423	2	US-09-206-344A-4	Sequence 4, App1.i	471	28	58.3	973	1	US-08-162-809-10	Sequence 10, App1
399	28	58.3	427	2	US-09-134-000C-5142	Sequence 5142, Ap	472	28	58.3	984	2	US-08-673-789-6	Sequence 6, App1
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401	28	58.3	430	2	US-09-198-452A-497	Sequence 497, App	474	28	58.3	986	1	US-08-673-789-3	Sequence 3, App1.i
402	28	58.3	430	2	US-09-438-185A-465	Sequence 465, App	475	28	58.3	986	1	US-08-449-645A-15	Sequence 15, App1
403	28	58.3	446	2	US-09-543-681A-6657	Sequence 6657, Ap	476	28	58.3	986	4	US-08-702-367A-15	Sequence 15, App1
404	28	58.3	447	1	US-08-370-193A-11	Sequence 11, App1	477	28	58.3	988	1	PCT-US95-04681-15	Sequence 15, App1
405	28	58.3	447	1	US-08-886-640-3	Sequence 3, App1.i	478	28	58.3	988	1	US-08-162-809-1	Sequence 1, App1
406	28	58.3	447	2	US-08-884-235-11	Sequence 11, App1	479	28	58.3	991	2	US-09-689-486-52	Sequence 52, App1
407	28	58.3	452	2	US-09-489-039A-7937	Sequence 7937, Ap	480	28	58.3	992	2	US-09-689-486-5	Sequence 5, App1
408	28	58.3	454	2	US-09-198-452A-197	Sequence 197, App	481	28	58.3	992	2	US-09-689-486-53	Sequence 53, App1
409	28	58.3	457	2	US-09-438-185A-184	Sequence 184, App	482	28	58.3	993	1	US-08-348-143-1	Sequence 1, App1
410	28	58.3	460	2	US-09-248-796A-18517	Sequence 18517, A	483	28	58.3	993	1	US-08-571-789-1	Sequence 1, App1
411	28	58.3	468	2	US-09-248-796A-27314	Sequence 27314, A	484	28	58.3	993	2	US-08-368-776A-11	Sequence 11, App1
412	28	58.3	483	2	US-09-905-999-20	Sequence 20, App1	485	28	58.3	993	2	US-09-192-435-1	Sequence 1, App1
413	28	58.3	484	2	US-09-270-767-42675	Sequence 42675, A	486	28	58.3	993	2	US-09-358-340-1	Sequence 1, App1
414	28	58.3	484	2	US-09-538-092-101	Sequence 101, App	487	28	58.3	994	2	US-08-542-635-2	Sequence 2, App1
415	28	58.3	507	2	US-09-252-991A-17308	Sequence 17308, A	488	28	58.3	994	2	US-08-368-776A-12	Sequence 12, App1
416	28	58.3	521	2	US-09-902-540-14904	Sequence 14904, A	489	28	58.3	995	1	US-08-162-809-18	Sequence 18, App1
417	28	58.3	547	2	US-09-543-681A-6530	Sequence 6530, Ap	490	28	58.3	995	1	US-08-673-789-5	Sequence 5, App1
418	28	58.3	552	2	US-09-107-532A-4865	Sequence 4865, Ap	491	28	58.3	997	2	US-09-949-016-7171	Sequence 7171, Ap
419	28	58.3	555	2	US-09-107-532A-4722	Sequence 4722, Ap	492	28	58.3	998	1	US-08-449-645A-17	Sequence 17, App1
420	28	58.3	559	2	US-09-489-039A-12509	Sequence 12509, A	493	28	58.3	998	1	US-08-449-645A-20	Sequence 20, App1
421	28	58.3	570	2	US-09-923-684-4	Sequence 4, App1.i	494	28	58.3	998	1	US-08-702-367A-17	Sequence 17, App1
422	28	58.3	580	1	US-08-309-512-6	Sequence 6, App1.i	495	28	58.3	998	1	US-08-702-367A-20	Sequence 20, App1
423	28	58.3	580	4	PCT-US92-08756A-6	Sequence 6, App1	496	28	58.3	998	2	US-08-368-776A-2	Sequence 2, App1
424	28	58.3	590	1	US-09-252-991A-20345	Sequence 20345, A	497	28	58.3	998	2	US-09-949-016-6501	Sequence 6501, Ap
425	28	58.3	599	1	US-08-954-333-7	Sequence 7, App1.i	498	28	58.3	998	4	PCT-US95-04681-17	Sequence 17, App1
426	28	58.3	610	2	US-09-248-796A-17399	Sequence 17399, A	499	28	58.3	998	4	PCT-US95-04681-20	Sequence 20, App1
427	28	58.3	622	2	US-09-902-540-11017	Sequence 11017, A	500	28	58.3	998	4	PCT-US96-00419-2	Sequence 2, App1
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430	28	58.3	644	2	US-09-538-092-385	Sequence 385, App	503	28	58.3	1005	2	US-09-949-016-10620	Sequence 10620, A
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433	28	58.3	685	2	US-10-029-180-82	Sequence 82, App1	506	28	58.3	1082	2	US-09-538-092-333	Sequence 533, App
434	28	58.3	686	2	US-09-248-796A-18636	Sequence 18636, A	507	28	58.3	1104	1	US-08-232-616-36	Sequence 36, App1
435	28	58.3	687	1	US-08-555-568B-21	Sequence 21, App1	508	28	58.3	1104	2	US-08-446-648-36	Sequence 36, App1
436	28	58.3	687	2	US-09-519-223-21	Sequence 21, App1	509	28	58.3	1104	4	US-09-982-610-36	Sequence 36, App1
437	28	58.3	687	2	US-09-927-180-21	Sequence 21, App1	510	28	58.3	1104	4	PCT-US95-04228-36	Sequence 36, App1
438	28	58.3	688	1	US-08-555-568B-23	Sequence 23, App1	511	28	58.3	1184	1	US-08-918-914-1	Sequence 1, App1
439	28	58.3	688	2	US-09-519-223-23	Sequence 23, App1	512	28	58.3	1184	2	US-08-996-083-3	Sequence 3, App1
440	28	58.3	688	2	US-09-927-180-23	Sequence 23, App1	513	28	58.3	1184	2	US-09-991-181-124	Sequence 124, App
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442	28	58.3	738	2	US-09-107-532A-5096	Sequence 5096, Ap	515	28	58.3	1184	2	US-09-997-333-124	Sequence 124, App
443	28	58.3	802	2	US-10-012-231A-260	Sequence 260, App	516	28	58.3	1184	2	US-09-992-598-124	Sequence 124, App
444	28	58.3	802	2	US-10-015-389A-260	Sequence 260, App	517	28	58.3	1246	2	US-09-252-991A-23140	Sequence 23140, A
445	28	58.3	802	2	US-10-006-768A-260	Sequence 260, App	518	28	58.3	1246	2	US-09-949-016-10970	Sequence 10970, A
446	28	58.3	802	2	US-10-015-671A-260	Sequence 260, App	519	28	58.3	2465	1	US-08-596-291-3	Sequence 3, App1
447	28	58.3	802	2	US-10-015-393A-260	Sequence 260, App	520	28	58.3	2465	2	US-09-100-804-3	Sequence 3, App1
448	28	58.3	802	2	US-10-011-833A-260	Sequence 260, App	521	28	58.3	2466	2	US-09-080-855-12	Sequence 12, App1
449	28	58.3	802	2	US-10-006-041A-260	Sequence 260, App	522	28	58.3	2466	2	US-09-566-076-12	Sequence 12, App1
450	28	58.3	802	2	US-10-012-064A-260	Sequence 260, App	523	28	58.3	2466	4	PCT-US94-09943-2	Sequence 2, App1
451	28	58.3	819	2	US-09-949-016-10948	Sequence 10948, A	524	28	58.3	2485	2	US-09-290-640-46	Sequence 46, App1
452	28	58.3	849	1	US-08-162-809-6	Sequence 6, App1.i	525	28	58.3	2485	2	US-09-665-615B-46	Sequence 46, App1
453	28	58.3	849	1	US-08-673-789-10	Sequence 10, App1	526	28	58.3	3472	2	US-09-408-020-4	Sequence 4, App1
454	28	58.3	860	2	US-09-936-989A-2	Sequence 2, App1	527	28	58.3	6239	2	US-09-914-286-4	Sequence 4, App1
455	28	58.3	866	2	US-09-556-877-189	Sequence 189, App	528	27	56.2	5	2	US-08-075-541D-14	Sequence 14, App1
456	28	58.3	866	2	US-09-620-412C-189	Sequence 189, App	529	27	56.2	18	2	US-08-075-541D-32	Sequence 32, App1
457	28	58.3	866	2	US-09-598-419-189	Sequence 189, App	530	27	56.2	32	2	US-08-075-541D-7	Sequence 7, App1
458	28	58.3	873	1	US-08-912-129A-61	Sequence 61, App1	531	27	56.2	32	2	US-08-075-541D-8	Sequence 8, App1
459	28	58.3	873	2	US-08-911-824-61	Sequence 61, App1	532	27	56.2	32	2	US-10-107-695B-4	Sequence 4, App1
460	28	58.3	880	2	US-09-556-877-175	Sequence 175, App	533	27	56.2	32	2	US-10-098-108-4	Sequence 4, App1
461	28	58.3	880	2	US-09-620-412C-175	Sequence 175, App	534	27	56.2	36	2	US-09-716-129-153	Sequence 153, App
462	28	58.3	880	2	US-09-598-419-175	Sequence 175, App	535	27	56.2	37	1	US-08-942-423-6	Sequence 6, App1
463	28	58.3	891	2	US-09-252-991A-11941	Sequence 11941, A	536	27	56.2	68	2	US-09-270-767-55749	Sequence 55749, A
464	28	58.3	925	2	US-09-936-989A-6	Sequence 6, App1.i	537	27	56.2	68	2	US-09-270-767-55749	Sequence 55749, A
465	28	58.3	945	2	US-09-949-016-8172	Sequence 8172, Ap	538	27	56.2	77	2	US-09-540-236-3068	Sequence 3068, Ap

539	27	56.2	78	2	US-09-540-236-2697	Sequence 2697, Ap	612	27	56.2	273	2	US-08-455-829-10	Sequence 10, Appl
540	27	56.2	79	2	US-09-513-999C-7701	Sequence 7701, Ap	613	27	56.2	273	2	US-08-235-896C-13	Sequence 13, Appl
541	27	56.2	81	1	US-08-469-412A-16	Sequence 16, Appl	614	27	56.2	273	2	US-08-455-993-10	Sequence 10, Appl
542	27	56.2	81	2	US-09-021-715-16	Sequence 16, Appl	615	27	56.2	273	2	US-09-248-766A-15062	Sequence 15062, A
543	27	56.2	82	2	US-09-583-110-4108	Sequence 4108, Ap	616	27	56.2	274	2	US-09-188-930-336	Sequence 336, Ap
544	27	56.2	82	2	US-09-107-433-3886	Sequence 3886, Ap	617	27	56.2	274	2	US-09-312-283C-336	Sequence 336, Ap
545	27	56.2	85	1	US-08-162-081B-46	Sequence 46, Appl	618	27	56.2	284	2	US-09-543-681A-6058	Sequence 6058, Ap
546	27	56.2	85	1	US-08-780-872-46	Sequence 46, Appl	619	27	56.2	284	2	US-09-489-039A-10967	Sequence 10967, A
547	27	56.2	85	1	US-09-085-957-46	Sequence 46, Appl	620	27	56.2	285	2	US-08-311-771A-34	Sequence 34, Appl
548	27	56.2	86	2	US-09-270-767-61896	Sequence 61896, A	621	27	56.2	285	2	US-08-311-771A-36	Sequence 36, Appl
549	27	56.2	86	2	US-09-270-766A-26577	Sequence 26577, A	622	27	56.2	287	2	US-09-270-767-45898	Sequence 45898, A
550	27	56.2	98	2	US-09-621-976-6255	Sequence 6255, Ap	623	27	56.2	289	2	US-09-361-096A-47	Sequence 47, Appl
551	27	56.2	98	2	US-09-513-999C-5765	Sequence 5765, Ap	624	27	56.2	290	2	US-09-252-991A-29035	Sequence 29035, A
552	27	56.2	103	2	US-09-134-001C-3738	Sequence 3738, Ap	625	27	56.2	291	2	US-09-602-377A-36	Sequence 36, Appl
553	27	56.2	106	2	US-09-113-977C-42	Sequence 42, Appl	626	27	56.2	292	2	US-09-543-681A-5957	Sequence 5957, Ap
554	27	56.2	106	2	US-09-113-977C-43	Sequence 43, Appl	627	27	56.2	292	2	US-09-248-796A-14234	Sequence 14234, A
555	27	56.2	106	2	US-09-351-048A-42	Sequence 42, Appl	628	27	56.2	293	2	US-09-902-540-12165	Sequence 12165, A
556	27	56.2	106	2	US-09-351-048A-43	Sequence 43, Appl	629	27	56.2	300	2	US-09-134-001C-4097	Sequence 4097, Ap
557	27	56.2	106	2	US-10-193-653-42	Sequence 42, Appl	630	27	56.2	300	2	US-09-248-796A-20770	Sequence 20770, A
558	27	56.2	106	2	US-10-193-653-43	Sequence 43, Appl	631	27	56.2	300	2	US-09-902-540-11871	Sequence 11871, A
559	27	56.2	107	2	US-09-113-977C-41	Sequence 41, Appl	632	27	56.2	306	1	US-08-089-968-2	Sequence 2, Appl
560	27	56.2	107	2	US-09-351-048A-41	Sequence 41, Appl	633	27	56.2	306	1	US-08-478-586-2	Sequence 2, Appl
561	27	56.2	107	2	US-10-193-653-41	Sequence 41, Appl	634	27	56.2	306	1	US-08-717-312-2	Sequence 2, Appl
562	27	56.2	111	2	US-09-270-767-35636	Sequence 35636, A	635	27	56.2	306	1	US-08-266-408-2	Sequence 2, Appl
563	27	56.2	111	2	US-09-270-767-50853	Sequence 50853, A	636	27	56.2	306	1	US-08-266-408-2	Sequence 2, Appl
564	27	56.2	114	2	US-09-107-532A-5130	Sequence 5130, Ap	637	27	56.2	306	4	PCT-US94-07886-2	Sequence 2, Appl
565	27	56.2	121	2	US-09-248-796A-16713	Sequence 16713, A	638	27	56.2	311	2	US-09-179-558-66	Sequence 66, Appl
566	27	56.2	125	2	US-09-107-532A-4929	Sequence 4929, Ap	639	27	56.2	311	2	US-09-722-828-66	Sequence 66, Appl
567	27	56.2	126	2	US-09-370-767-61515	Sequence 61515, A	640	27	56.2	311	2	US-09-722-487-66	Sequence 66, Appl
568	27	56.2	130	2	US-09-328-352-6607	Sequence 6607, Ap	641	27	56.2	311	2	US-09-722-708-66	Sequence 66, Appl
569	27	56.2	131	2	US-09-902-540-15267	Sequence 15267, A	642	27	56.2	319	2	US-09-543-681A-4976	Sequence 4976, Ap
570	27	56.2	132	2	US-09-248-796A-19032	Sequence 19032, A	643	27	56.2	320	2	US-09-328-352-4419	Sequence 4419, Ap
571	27	56.2	141	2	US-09-270-767-32085	Sequence 32085, A	644	27	56.2	322	1	US-08-036-210-11	Sequence 11, Appl
572	27	56.2	159	2	US-09-270-767-47530	Sequence 47530, A	645	27	56.2	322	1	US-08-449-620-11	Sequence 11, Appl
573	27	56.2	160	2	US-09-270-767-32187	Sequence 32187, A	646	27	56.2	322	1	US-09-361-096A-11	Sequence 11, Appl
574	27	56.2	160	2	US-09-270-767-47404	Sequence 47404, A	647	27	56.2	322	2	US-09-270-767-46326	Sequence 46326, A
575	27	56.2	161	2	US-08-990-791-13	Sequence 13, Appl	648	27	56.2	324	2	US-09-361-096A-11	Sequence 11, Appl
576	27	56.2	161	2	US-09-372-591-13	Sequence 13, Appl	649	27	56.2	325	2	US-09-711-164-388	Sequence 388, Ap
577	27	56.2	161	2	US-09-372-591-13	Sequence 13, Appl	650	27	56.2	332	2	US-09-605-703B-2694	Sequence 2694, Ap
578	27	56.2	171	1	US-08-609-049A-21	Sequence 21, Appl	651	27	56.2	332	2	US-09-540-236-2281	Sequence 2281, Ap
579	27	56.2	171	2	US-09-170-996-21	Sequence 21, Appl	652	27	56.2	338	2	US-09-270-767-38469	Sequence 38469, A
580	27	56.2	174	2	US-08-426-630-45	Sequence 45, Appl	653	27	56.2	338	2	US-09-270-767-53686	Sequence 53686, A
581	27	56.2	176	1	US-08-036-210-9	Sequence 9, Appl	654	27	56.2	342	2	US-09-270-767-45977	Sequence 45977, A
582	27	56.2	176	1	US-08-449-609-9	Sequence 9, Appl	655	27	56.2	343	2	US-09-902-540-13662	Sequence 13662, A
583	27	56.2	179	2	US-09-361-096A-9	Sequence 9, Appl	656	27	56.2	344	2	US-09-543-681A-7493	Sequence 7493, Ap
584	27	56.2	179	2	US-09-270-767-32208	Sequence 32208, A	657	27	56.2	347	2	US-09-543-681A-7493	Sequence 7493, Ap
585	27	56.2	182	2	US-09-270-767-47425	Sequence 47425, A	658	27	56.2	352	2	US-09-108-020-51	Sequence 51, Appl
586	27	56.2	182	2	US-09-252-991A-27281	Sequence 27281, A	659	27	56.2	352	2	US-09-108-020-51	Sequence 51, Appl
587	27	56.2	188	2	US-09-270-767-38256	Sequence 38256, A	660	27	56.2	352	2	US-09-685-296-14	Sequence 14, Appl
588	27	56.2	188	2	US-09-270-767-53473	Sequence 53473, A	661	27	56.2	352	2	US-09-685-296-51	Sequence 51, Appl
589	27	56.2	191	2	US-09-270-767-42015	Sequence 42015, A	662	27	56.2	359	2	US-09-179-558-65	Sequence 65, Appl
590	27	56.2	191	2	US-09-270-767-42015	Sequence 42015, A	663	27	56.2	359	2	US-09-722-828-65	Sequence 65, Appl
591	27	56.2	200	2	US-09-902-540-12067	Sequence 12067, A	664	27	56.2	359	2	US-09-722-487-65	Sequence 65, Appl
592	27	56.2	207	2	US-09-149-476-516	Sequence 516, App	665	27	56.2	359	2	US-09-198-452A-131	Sequence 131, Ap
593	27	56.2	209	2	US-09-270-767-42693	Sequence 42693, A	666	27	56.2	359	2	US-09-722-708-65	Sequence 65, Appl
594	27	56.2	213	2	US-09-134-001C-3969	Sequence 3969, Ap	667	27	56.2	359	2	US-09-438-108A-115	Sequence 115, Ap
595	27	56.2	216	2	US-08-543-246B-9	Sequence 9, Appl	668	27	56.2	363	2	US-09-352-991A-27806	Sequence 27806, A
596	27	56.2	216	2	US-08-543-246B-24	Sequence 24, Appl	669	27	56.2	369	2	US-09-270-767-60194	Sequence 60194, A
597	27	56.2	219	2	US-09-270-767-45934	Sequence 45934, A	670	27	56.2	375	2	US-09-328-352-5905	Sequence 5905, Ap
598	27	56.2	223	2	US-09-949-002-508	Sequence 508, App	671	27	56.2	375	2	US-09-248-796A-19504	Sequence 19504, A
599	27	56.2	228	2	US-09-252-991A-24998	Sequence 24998, A	672	27	56.2	376	2	US-09-370-838-188	Sequence 188, App
600	27	56.2	232	2	US-09-149-476-633	Sequence 633, App	673	27	56.2	376	2	US-09-854-133-188	Sequence 188, App
601	27	56.2	236	2	US-09-014-001C-4085	Sequence 4085, Ap	674	27	56.2	385	2	US-09-134-000C-6610	Sequence 6610, Ap
602	27	56.2	240	2	US-09-489-039A-7742	Sequence 7742, Ap	675	27	56.2	385	2	US-09-489-039A-7667	Sequence 7667, Ap
603	27	56.2	240	2	US-09-489-039A-7742	Sequence 7742, Ap	676	27	56.2	385	2	US-09-107-433-4643	Sequence 4643, Ap
604	27	56.2	246	2	US-09-328-352-6152	Sequence 6152, Ap	677	27	56.2	389	2	US-09-248-796A-15930	Sequence 15930, A
605	27	56.2	252	2	US-09-149-476-632	Sequence 332, App	678	27	56.2	390	2	US-08-650-766-7	Sequence 7, Appl
606	27	56.2	254	2	US-09-540-236-2232	Sequence 2232, Ap	679	27	56.2	390	2	US-08-922-635-5	Sequence 6, Appl
607	27	56.2	268	2	US-09-489-039A-7334	Sequence 7334, Ap	680	27	56.2	390	2	US-09-389-487-7	Sequence 7, Appl
608	27	56.2	265	2	US-09-949-016-9336	Sequence 9336, Ap	681	27	56.2	393	2	US-09-414-643-6	Sequence 6, Appl
609	27	56.2	268	2	US-09-523-263B-13	Sequence 13, Appl	682	27	56.2	395	2	US-09-270-767-42217	Sequence 42217, A
610	27	56.2	268	2	US-10-299-867-13	Sequence 13, Appl	683	27	56.2	395	2	US-09-917-254-56	Sequence 56, Appl
611	27	56.2	273	1	US-08-320-161-10	Sequence 10, Appl	684	27	56.2	396	2	US-09-902-540-15124	Sequence 15124, A

685	27	56.2	401	2	US-09-361-096A-15	Sequence 15, Appl	758	27	56.2	577	2	US-09-902-540-15872	Sequence 15872, A
686	27	56.2	402	1	US-08-036-210-15	Sequence 15, Appl	759	27	56.2	582	2	US-09-252-991A-20481	Sequence 20481, A
687	27	56.2	402	1	US-08-449-609-15	Sequence 15, Appl	760	27	56.2	583	2	US-09-949-016-8267	Sequence 8267, Ap
688	27	56.2	410	2	US-09-328-352-6146	Sequence 6146, Ap	761	27	56.2	585	2	US-09-489-039A-12909	Sequence 12909, A
689	27	56.2	418	2	US-09-248-796A-18441	Sequence 18441, A	762	27	56.2	589	2	US-09-643-657-70-16	Sequence 6, Appl
690	27	56.2	420	2	US-09-107-532A-4006	Sequence 4006, Ap	763	27	56.2	592	1	US-08-736-770-6	Sequence 6, Appl
691	27	56.2	421	2	US-09-002-567B-1	Sequence 1, Appl	764	27	56.2	592	2	US-09-702-705-1809	Sequence 1809, Ap
692	27	56.2	421	2	US-09-002-567B-3	Sequence 3, Appl	765	27	56.2	592	2	US-09-736-457-1809	Sequence 1809, Ap
693	27	56.2	421	2	US-09-571-347-1	Sequence 1, Appl	766	27	56.2	592	2	US-09-643-657-4	Sequence 4, Appl
694	27	56.2	421	2	US-09-571-347-3	Sequence 3, Appl	767	27	56.2	592	2	US-09-671-325-1809	Sequence 1809, Ap
695	27	56.2	421	2	US-09-248-796A-22036	Sequence 22036, A	768	27	56.2	592	2	US-10-017-754-1809	Sequence 1809, Ap
696	27	56.2	421	2	US-09-949-016-6892	Sequence 6892, Ap	769	27	56.2	595	2	US-09-248-796A-14562	Sequence 14562, A
697	27	56.2	424	1	US-08-247-908A-11	Sequence 11, Appl	770	27	56.2	596	2	US-09-949-016-7776	Sequence 7776, Ap
698	27	56.2	424	1	US-08-453-942-11	Sequence 11, Appl	771	27	56.2	601	1	US-08-333-358-1-14	Sequence 14, Appl
699	27	56.2	424	1	US-08-926-885A-11	Sequence 11, Appl	772	27	56.2	601	1	US-08-694-501-14	Sequence 14, Appl
700	27	56.2	424	4	PCT-US94-05290-11	Sequence 11, Appl	773	27	56.2	601	1	US-08-694-501-14	Sequence 14, Appl
701	27	56.2	426	2	US-09-270-767-35910	Sequence 35910, A	774	27	56.2	605	2	US-09-949-016-8823	Sequence 8823, Ap
702	27	56.2	426	2	US-09-270-767-51127	Sequence 51127, A	775	27	56.2	617	1	US-08-137-614A-24	Sequence 24, Appl
703	27	56.2	427	2	US-09-550-645-2	Sequence 2, Appl	776	27	56.2	621	2	US-09-489-039A-9256	Sequence 9256, Ap
704	27	56.2	428	2	US-09-922-364A-32	Sequence 32, Appl	777	27	56.2	621	2	US-09-248-796A-15807	Sequence 15807, A
705	27	56.2	428	2	US-09-354-590-32	Sequence 32, Appl	778	27	56.2	651	2	US-08-650-765-6	Sequence 6, Appl
706	27	56.2	428	2	US-10-115-415-32	Sequence 32, Appl	779	27	56.2	651	2	US-08-922-635-5	Sequence 5, Appl
707	27	56.2	428	2	US-10-116-260-32	Sequence 32, Appl	780	27	56.2	651	2	US-09-389-487-6	Sequence 6, Appl
708	27	56.2	428	2	US-10-115-671-32	Sequence 32, Appl	781	27	56.2	651	2	US-09-414-643-5	Sequence 5, Appl
709	27	56.2	428	2	US-10-115-695-32	Sequence 32, Appl	782	27	56.2	675	2	US-09-252-991A-27026	Sequence 27026, A
710	27	56.2	439	2	US-09-409-096-6	Sequence 6, Appl	783	27	56.2	676	2	US-09-248-796A-14898	Sequence 14898, A
711	27	56.2	439	2	US-09-248-796A-18964	Sequence 18964, A	784	27	56.2	688	1	US-08-221-817-19	Sequence 19, Appl
712	27	56.2	441	4	PCT-US93-12588-98	Sequence 98, Appl	785	27	56.2	688	1	US-08-434-439-19	Sequence 19, Appl
713	27	56.2	441	4	PCT-US95-08071-98	Sequence 98, Appl	786	27	56.2	688	4	PCT-US94-10487-19	Sequence 19, Appl
714	27	56.2	443	1	US-08-833-963C-2	Sequence 2, Appl	787	27	56.2	698	2	US-09-949-016-10644	Sequence 10644, A
715	27	56.2	443	2	US-08-980-514-1	Sequence 1, Appl	788	27	56.2	714	2	US-09-248-796A-18997	Sequence 18997, A
716	27	56.2	449	2	US-09-248-796A-14389	Sequence 14389, A	789	27	56.2	727	2	US-09-179-558-56	Sequence 56, Appl
717	27	56.2	452	2	US-09-252-991A-20884	Sequence 20884, A	790	27	56.2	727	2	US-09-722-825-56	Sequence 56, Appl
718	27	56.2	458	3	US-09-041-075A-11	Sequence 11, Appl	791	27	56.2	727	2	US-09-722-825-56	Sequence 56, Appl
719	27	56.2	460	2	US-09-248-796A-17144	Sequence 17144, A	792	27	56.2	742	2	US-09-107-532A-4996	Sequence 4996, Ap
720	27	56.2	463	2	US-09-270-767-45547	Sequence 45547, A	793	27	56.2	752	2	US-09-585-858-26	Sequence 26, Appl
721	27	56.2	463	2	US-09-849-016-10459	Sequence 10459, A	794	27	56.2	752	2	US-09-917-878-76	Sequence 26, Appl
722	27	56.2	465	2	US-09-328-352-4555	Sequence 4555, Ap	795	27	56.2	752	2	US-10-270-878-26	Sequence 26, Appl
723	27	56.2	466	2	US-09-949-016-7792	Sequence 7792, Ap	796	27	56.2	752	2	US-09-543-681A-4312	Sequence 4312, Ap
724	27	56.2	472	2	US-09-352-991A-23070	Sequence 23070, A	797	27	56.2	803	2	US-08-533-306A-6	Sequence 6, Appl
725	27	56.2	475	2	US-09-583-110-3986	Sequence 3986, Ap	798	27	56.2	816	1	US-08-742-923A-4	Sequence 4, Appl
726	27	56.2	481	2	US-10-104-047-2394	Sequence 2394, Ap	799	27	56.2	816	1	US-08-543-681A-6067	Sequence 6067, Ap
727	27	56.2	484	2	US-09-605-703B-2414	Sequence 2414, Ap	800	27	56.2	879	2	US-09-543-681A-6067	Sequence 4, Appl
728	27	56.2	486	1	US-08-942-423-2	Sequence 2, Appl	801	27	56.2	885	1	US-08-533-306A-4	Sequence 4, Appl
729	27	56.2	486	2	US-08-904-452-2	Sequence 2, Appl	802	27	56.2	885	1	US-08-742-923A-4	Sequence 4, Appl
730	27	56.2	486	2	US-08-630-915A-26	Sequence 26, Appl	803	27	56.2	892	2	US-09-252-991A-32194	Sequence 32194, A
731	27	56.2	486	2	US-09-517-639-2	Sequence 26, Appl	804	27	56.2	898	1	US-08-036-210-22	Sequence 22, Appl
732	27	56.2	488	2	US-09-879-957-26	Sequence 26, Appl	805	27	56.2	898	1	US-08-449-609-22	Sequence 22, Appl
733	27	56.2	488	2	US-09-440-236-3027	Sequence 3027, Ap	806	27	56.2	906	2	US-09-361-096A-22	Sequence 22, Appl
734	27	56.2	493	2	US-09-270-767-46087	Sequence 46087, A	807	27	56.2	913	1	US-08-474-067-6	Sequence 6, Appl
735	27	56.2	494	2	US-09-252-991A-28162	Sequence 28162, A	808	27	56.2	913	1	US-08-474-068A-6	Sequence 6, Appl
736	27	56.2	500	2	US-09-270-767-43061	Sequence 43061, A	809	27	56.2	913	1	US-08-683-262B-75	Sequence 75, Appl
737	27	56.2	500	2	US-09-248-796A-25507	Sequence 25507, A	810	27	56.2	913	1	US-08-904-452-4	Sequence 55, Appl
738	27	56.2	510	2	US-09-949-016-10021	Sequence 10021, A	811	27	56.2	941	2	US-09-361-707-75	Sequence 75, Appl
739	27	56.2	514	2	US-09-248-796A-25666	Sequence 25666, A	812	27	56.2	941	2	US-09-722-825-55	Sequence 55, Appl
740	27	56.2	516	2	US-10-104-047-3813	Sequence 3813, Ap	813	27	56.2	941	2	US-09-722-825-55	Sequence 55, Appl
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742	27	56.2	537	2	US-09-489-039A-10024	Sequence 10024, A	815	27	56.2	973	1	US-08-683-262B-75	Sequence 75, Appl
743	27	56.2	546	2	US-09-252-991A-23291	Sequence 23291, A	816	27	56.2	973	1	US-08-904-452-4	Sequence 55, Appl
744	27	56.2	553	2	US-09-489-039A-10290	Sequence 10290, A	817	27	56.2	973	2	US-09-361-707-75	Sequence 75, Appl
745	27	56.2	555	1	US-08-453-702A-98	Sequence 98, Appl	818	27	56.2	998	2	US-09-517-639-4	Sequence 4, Appl
746	27	56.2	555	2	US-09-830-807-45	Sequence 45, Appl	819	27	56.2	998	2	US-09-949-016-8926	Sequence 8336, Ap
747	27	56.2	556	1	US-07-998-003A-98	Sequence 98, Appl	820	27	56.2	1068	2	US-08-390-874C-11	Sequence 11, Appl
748	27	56.2	556	1	US-08-453-274B-98	Sequence 98, Appl	821	27	56.2	1068	2	US-09-262-772-11	Sequence 11, Appl
749	27	56.2	556	1	US-08-453-695A-98	Sequence 98, Appl	822	27	56.2	1068	2	US-09-538-092-1111	Sequence 37, Appl
750	27	56.2	556	1	US-08-668-161A-98	Sequence 98, Appl	823	27	56.2	1069	1	US-08-162-081B-37	Sequence 37, Appl
751	27	56.2	556	2	US-09-099-639-98	Sequence 98, Appl	824	27	56.2	1069	1	US-08-780-872-37	Sequence 37, Appl
752	27	56.2	563	2	US-10-197-220-106	Sequence 106, Appl	825	27	56.2	1070	2	US-09-085-957-37	Sequence 37, Appl
753	27	56.2	563	2	US-09-711-164-409	Sequence 409, App	826	27	56.2	1070	2	US-08-922-635-22	Sequence 22, Appl
754	27	56.2	574	2	US-09-949-016-6379	Sequence 6379, Ap	827	27	56.2	1070	2	US-09-414-643-22	Sequence 22, Appl
755	27	56.2	574	2	US-10-225-323A-19	Sequence 19, Appl	828	27	56.2	1072	2	US-09-949-016-6673	Sequence 6673, Ap
756	27	56.2	576	1	US-08-533-306A-2	Sequence 2, Appl	829	27	56.2	1078	2	US-08-480-474-11	Sequence 11, Appl
757	27	56.2	576	1	US-08-742-923A-2	Sequence 2, Appl	830	27	56.2	1080	1	US-08-162-081B-36	Sequence 36, Appl

831	27	56.2	1080	1	US-08-780-872-36	Sequence 36, Appl	904	26	54.2	10	1	US-08-902-516-19	Sequence 19, Appl
832	27	56.2	1080	2	US-09-085-957-36	Sequence 36, Appl	905	26	54.2	10	2	US-08-704-344-22	Sequence 22, Appl
833	27	56.2	1085	2	US-09-949-016-8762	Sequence 8762, Ap	906	26	54.2	10	2	US-09-847-185-19	Sequence 19, Appl
834	27	56.2	1085	2	US-09-949-016-8763	Sequence 8763, Ap	907	26	54.2	10	2	US-09-601-729-270	Sequence 270, App
835	27	56.2	1085	2	US-09-949-016-8764	Sequence 8764, Ap	908	26	54.2	10	2	US-09-980-177A-19	Sequence 19, Appl
836	27	56.2	1085	2	US-09-949-016-8765	Sequence 8765, Ap	909	26	54.2	16	2	US-09-009-953-29	Sequence 29, Appl
837	27	56.2	1106	2	US-09-949-016-8766	Sequence 8766, Ap	910	26	54.2	16	2	US-09-009-953-38	Sequence 38, Appl
838	27	56.2	1114	2	US-09-949-016-5925	Sequence 5925, Ap	911	26	54.2	26	2	US-09-962-756-425	Sequence 425, Appl
839	27	56.2	1114	2	US-09-949-016-6975	Sequence 6975, Ap	912	26	54.2	34	2	US-09-270-767-44550	Sequence 44550, A
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843	27	56.2	1127	2	US-09-949-016-7674	Sequence 7674, Ap	916	26	54.2	61	2	US-09-248-796A-21500	Sequence 21500, A
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846	27	56.2	1127	2	US-09-949-016-8768	Sequence 8768, Ap	919	26	54.2	64	2	US-09-511-999C-6219	Sequence 6219, Ap
847	27	56.2	1127	2	US-09-949-016-8769	Sequence 8769, Ap	920	26	54.2	66	1	US-08-588-258B-9	Sequence 9, Appl1
848	27	56.2	1141	1	US-08-363-300-2	Sequence 2, Appl1	921	26	54.2	66	1	US-08-588-258B-14	Sequence 14, Appl1
849	27	56.2	1161	1	US-08-716-964B-118	Sequence 118, App	922	26	54.2	66	2	US-08-460-505-9	Sequence 9, Appl1
850	27	56.2	1168	2	US-09-762-311-5	Sequence 5, Appl1	923	26	54.2	66	2	US-08-460-505-14	Sequence 14, Appl1
851	27	56.2	1207	2	US-09-817-762-7	Sequence 7, Appl1	924	26	54.2	66	4	PCT-US96-08285-9	Sequence 9, Appl1
852	27	56.2	1216	2	US-09-583-110-3824	Sequence 3824, Ap	925	26	54.2	66	4	PCT-US96-08285-9	Sequence 14, Appl
853	27	56.2	1216	2	US-09-769-787-12	Sequence 12, Appl	926	26	54.2	68	4	US-09-543-681A-7973	Sequence 7973, Ap
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864	27	56.2	1464	2	US-09-386-123-11	Sequence 11, Appl	937	26	54.2	101	2	US-09-513-999C-5294	Sequence 5294, Ap
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873	27	56.2	1912	2	US-09-249-181A-2	Sequence 2, Appl1	946	26	54.2	112	2	US-08-728-742A-56	Sequence 56, Appl
874	27	56.2	1912	2	US-09-158-707-2	Sequence 3, Appl1	947	26	54.2	114	2	US-09-513-999C-8132	Sequence 8132, Ap
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876	27	56.2	1972	2	US-08-875-435B-4	Sequence 1084, Ap	949	26	54.2	128	1	US-08-946-528-9	Sequence 9, Appl1
877	27	56.2	1972	2	US-09-538-092-1084	Sequence 7111, Ap	950	26	54.2	128	2	US-09-270-767-31929	Sequence 31929, A
878	27	56.2	1984	2	US-09-949-016-7111	Sequence 7113, Ap	951	26	54.2	128	2	US-09-270-767-47146	Sequence 47146, A
879	27	56.2	1984	2	US-09-949-016-7112	Sequence 7113, Ap	952	26	54.2	128	2	US-09-270-767-47146	Sequence 1338, Ap
880	27	56.2	1984	2	US-09-949-016-7113	Sequence 8849, Ap	953	26	54.2	128	2	US-09-107-433-3731	Sequence 3731, Ap
881	27	56.2	2262	2	US-09-949-016-8849	Sequence 2, Appl1	954	26	54.2	128	2	US-09-328-352-6900	Sequence 6900, Ap
882	27	56.2	2262	2	US-09-822-871-2	Sequence 4, Appl1	955	26	54.2	130	2	US-09-902-540-15958	Sequence 15958, A
883	27	56.2	2301	2	US-09-822-871-4	Sequence 4, Appl1	956	26	54.2	134	2	US-09-270-767-43791	Sequence 43791, A
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888	26.5	55.2	243	2	US-09-510-885-2	Sequence 2, Appl1	961	26	54.2	141	1	US-08-470-179-17	Sequence 18, Appl
889	26.5	55.2	243	4	PCT-US93-09774-2	Sequence 4, Appl1	962	26	54.2	141	1	US-08-470-179-18	Sequence 19, Appl
890	26.5	55.2	243	4	PCT-US93-09774-2	Sequence 4, Appl1	963	26	54.2	141	1	US-08-470-179-19	Sequence 20, Appl
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892	26.5	55.2	289	1	US-08-301-316B-4	Sequence 4, Appl1	965	26	54.2	142	1	US-09-248-796A-17799	Sequence 42248, A
893	26.5	55.2	289	1	US-08-473-399B-4	Sequence 4, Appl1	966	26	54.2	149	2	US-09-270-767-46248	Sequence 68048, A
894	26.5	55.2	289	2	US-08-853-831-4	Sequence 4, Appl1	967	26	54.2	151	2	US-09-270-767-36522	Sequence 36522, A
895	26.5	55.2	289	2	US-09-510-885-4	Sequence 4, Appl1	968	26	54.2	158	2	US-09-270-767-51739	Sequence 51739, A
896	26.5	55.2	289	4	PCT-US93-09774-4	Sequence 4, Appl1	969	26	54.2	158	2	US-09-270-767-51739	Sequence 17179, A
897	26.5	54.2	9	1	US-08-787-547-104	Sequence 104, App	970	26	54.2	161	2	US-08-493-071-17	Sequence 17, Appl
898	26.5	54.2	9	2	US-08-948-378A-17	Sequence 17, Appl	971	26	54.2	161	2	US-09-543-681A-5558	Sequence 5258, Ap
899	26.5	54.2	9	2	US-09-169-425C-17	Sequence 17, Appl	972	26	54.2	161	2	US-09-270-767-48578	Sequence 48578, A
900	26.5	54.2	9	2	US-08-197-484-66	Sequence 66, Appl	973	26	54.2	161	2	US-09-270-767-48578	Sequence 48578, A
901	26.5	54.2	9	2	US-09-759-960-17	Sequence 17, Appl	974	26	54.2	162	2	US-09-270-767-49086	Sequence 49086, A
902	26.5	54.2	9	2	US-09-417-608A-11	Sequence 11, Appl	975	26	54.2	163	2	US-09-270-767-49086	Sequence 22, Appl
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983 26 54.2 181 1 US-08-466-961A-22 Sequence 22, Appl
984 26 54.2 181 1 US-08-645-193B-24 Sequence 24, Appl
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988 26 54.2 187 2 US-09-252-991A-26696 Sequence 26696, A
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991 26 54.2 193 1 US-08-987-122-2 Sequence 2, Appl
992 26 54.2 193 2 US-09-134-001C-4171 Sequence 4171, Ap
993 26 54.2 193 2 US-09-583-110-3434 Sequence 3434, Ap
994 26 54.2 193 2 US-09-107-433-4419 Sequence 4419, Ap
995 26 54.2 193 3 US-09-198-284-2 Sequence 2, Appl
996 26 54.2 194 2 US-09-248-796A-21702 Sequence 21702, A
997 26 54.2 194 2 US-09-107-433-4587 Sequence 4587, Ap
998 26 54.2 199 2 US-09-461-697-93 Sequence 93, Appl
999 26 54.2 200 2 US-09-252-991A-19243 Sequence 19243, A
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ALIGNMENTS

RESULT 1
US-08-787-547-105
Sequence 105, Application US/08787547
Patent No. 5783567
GENERAL INFORMATION:
APPLICANT: Hedley, Mary Lynne
APPLICANT: Curley, Joanne M.
APPLICANT: Langer, Robert S.
TITLE OF INVENTION: MICROPARTICLES FOR DELIVERY
TITLE OF INVENTION: OF NUCLEIC ACID
NUMBER OF SEQUENCES: 107
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/787,547
FILING DATE: 22-JAN-1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/003001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 105:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide

US-08-787-547-105

Query Match 100.0%; Score 48; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLHEYMIDL 9
|||
DB 1 TLHEYMIDL 9

RESULT 2
US-08-197-484-69
Sequence 69, Application US/08197484
Patent No. 641931

GENERAL INFORMATION:
APPLICANT: VITTELLO, Maria A.
APPLICANT: CHESTNUT, Robert W.
APPLICANT: SETTE, Alessandro D.
APPLICANT: CELIS, Esben
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ELICITING
TITLE OF INVENTION: CTL IMMUNITY
NUMBER OF SEQUENCES: 153
CORRESPONDENCE ADDRESS:
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STREET: Stewart Street Tower, One Market Plaza
CITY: San Francisco
STATE: California
COUNTRY: US
ZIP: 94105-1493

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/197,484
FILING DATE: 16-FEB-1994

CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/935,811
FILING DATE: 26-AUG-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/874,491
FILING DATE: 27-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/827,682
FILING DATE: 29-JAN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/749,568
FILING DATE: 26-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: Parmelee, Steven W.
REGISTRATION NUMBER: 31,990
REFERENCE/DOCKET NUMBER: 14137-26-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 467-9600
TELEFAX: (206) 467-9600
INFORMATION FOR SEQ ID NO: 69:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: peptide
US-08-197-484-69

Query Match 100.0%; Score 48; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TLHEYMIDL 9

Db 1 TLHEWMLDL 9

RESULT 3
US-10-365-908-4
Sequence 4, Application US/10365908
Patent No. 6797491
GENERAL INFORMATION:
APPLICANT: Neefe, John R.
APPLICANT: Boux, Leslie J.
APPLICANT: Winnett, Mark T.
APPLICANT: Goldstone, Stephen E.
APPLICANT: Siegel, Marvin
TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
FILE REFERENCE: 12071-003001
CURRENT APPLICATION NUMBER: US/10/365,908
CURRENT FILING DATE: 2003-02-13
PRIOR APPLICATION NUMBER: US/09/891,823
PRIOR FILING DATE: 2001-10-19
PRIOR APPLICATION NUMBER: US 60/214,202
PRIOR FILING DATE: 2000-06-26
NUMBER OF SEQ ID NOS: 140
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 4
LENGTH: 9
TYPE: PRT
ORGANISM: Human papilloma virus
US-10-365-908-4

Query Match 100.0%; Score 48; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLHEWMLDL 9
Db 1 TLHEWMLDL 9

RESULT 4
PCT-US95-02121-69
Sequence 69, Application PC/TUS9502121
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ELICITING
TITLE OF INVENTION: CTL IMMUNITY
NUMBER OF SEQUENCES: 153
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/02121
FILING DATE: 16-FEB-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 06/197,484
FILING DATE: 16-FEB-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/935,811
FILING DATE: 26-AUG-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/874,491
FILING DATE: 27-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/827,682
FILING DATE: 29-JAN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/749,566
FILING DATE: 26-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: Parmelee, Steven W.

REGISTRATION NUMBER: 31,990
REFERENCE/DOCKET NUMBER: 14137-26-4PC
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TELEPHONE: (206) 467-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 69:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: peptide
PCT-US95-02121-69

Query Match 100.0%; Score 48; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLHEWMLDL 9
Db 1 TLHEWMLDL 9

RESULT 5
US-10-365-908-49
Sequence 49, Application US/10365908
Patent No. 6797491
GENERAL INFORMATION:
APPLICANT: Neefe, John R.
APPLICANT: Boux, Leslie J.
APPLICANT: Winnett, Mark T.
APPLICANT: Goldstone, Stephen E.
APPLICANT: Siegel, Marvin
TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
FILE REFERENCE: 12071-003001
CURRENT APPLICATION NUMBER: US/10/365,908
CURRENT FILING DATE: 2003-02-13
PRIOR APPLICATION NUMBER: US/09/891,823
PRIOR FILING DATE: 2001-10-19
PRIOR APPLICATION NUMBER: US 60/214,202
PRIOR FILING DATE: 2000-06-26
NUMBER OF SEQ ID NOS: 140
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 49
LENGTH: 10
TYPE: PRT
ORGANISM: Human papilloma virus
US-10-365-908-49

Query Match 100.0%; Score 48; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0046;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLHEWMLDL 9
Db 2 TLHEWMLDL 10

RESULT 6
US-08-075-541D-34
Sequence 34, Application US/08075541D
Patent No. 6183745
GENERAL INFORMATION:
APPLICANT: TINDLE, ROBERT
APPLICANT: FERNANDO, GERMAIN
APPLICANT: FRAZER, IAN
TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
NUMBER OF SEQUENCES: 56
CORRESPONDENCE ADDRESSES:
ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
STREET: 1601 MARKET STREET, 36TH FLOOR
CITY: PHILADELPHIA

STATE: PENNSYLVANIA
COUNTRY: USA
ZIP: 19103-2398
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/075,541D
FILING DATE: 10-JUN-1993
CLASSIFICATION: 424
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: AU Pk 3876
FILING DATE: 12-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: pct/au91/00575
FILING DATE: 12-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: NADEL, ALAN S
REGISTRATION NUMBER: 27,363
REFERENCE/DOCKET NUMBER: 8795-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-567-2020
TELEFAX: 215-567-2991
INFORMATION FOR SEQ ID NO: 34:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-075-541D-34

Query Match 100.0%; Score 48; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.0087;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLHEYMLDL 9
Db 7 TLHEYMLDL 15

RESULT 7
US-08-934-915-46
Sequence 46, Application US/08934915
Patent No. 5932412
GENERAL INFORMATION:
APPLICANT: DILLNER, JOAKIM
APPLICANT: CHENG, HWEE-MING
TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
TITLE OF INVENTION: DIAGNOSTIC PURPOSES
NUMBER OF SEQUENCES: 193
CORRESPONDENCE ADDRESS:
ADDRESSEE: MASON & ASSOCIATES, P.A.
STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
CITY: CLEARWATER
STATE: FLORIDA
COUNTRY: U.S.A.
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 3.0
SOFTWARE: Microsoft Word 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/934,915
FILING DATE: 22-SEP-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/949,836
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: LOUISE A. Fouch
REGISTRATION NUMBER: 37,133
REFERENCE/DOCKET NUMBER: 1946.6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 813-538-3800
TELEFAX: 813-538-3820
TELEX:
INFORMATION FOR SEQ ID NO: 46:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-934-915-46

Query Match 100.0%; Score 48; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.0098;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLHEYMLDL 9
Db 6 TLHEYMLDL 14

RESULT 8
US-08-075-541D-43
Sequence 43, Application US/08075541D
Patent No. 6183745
GENERAL INFORMATION:
APPLICANT: TINDLE, ROBERT
APPLICANT: FERNANDO, GERMAIN
APPLICANT: FRAZER, IAN
TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
NUMBER OF SEQUENCES: 56
CORRESPONDENCE ADDRESS:
ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
STREET: 1601 MARKET STREET, 36TH FLOOR
CITY: PHILADELPHIA
STATE: PENNSYLVANIA
COUNTRY: USA
ZIP: 19103-2398
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/075,541D
FILING DATE: 10-JUN-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: AU Pk 3876
FILING DATE: 12-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: pct/au91/00575
FILING DATE: 12-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: NADEL, ALAN S
REGISTRATION NUMBER: 27,363
REFERENCE/DOCKET NUMBER: 8795-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-567-2020
TELEFAX: 215-567-2991
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear

MOLECULE TYPE: peptide
US-08-075-541D-43

Query Match 100.0%; Score 48; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.0098;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLHEYMULD 9
|||||
Db 7 TLHEYMULD 15

RESULT 9

US-08-075-541D-44
Sequence 44, Application US/08075541D
Patent No. 6183745

GENERAL INFORMATION:
APPLICANT: TINDLE, ROBERT
APPLICANT: FERNANDO, GERMAIN
APPLICANT: PRAZER, IAN
TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
NUMBER OF SEQUENCES: 56
CORRESPONDENCE ADDRESS:
ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
STREET: 1601 MARKET STREET, 36TH FLOOR
CITY: PHILADELPHIA
STATE: PENNSYLVANIA
COUNTRY: USA
ZIP: 19103-2398

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/075,541D
FILING DATE: 10-JUN-1993
CLASSIFICATION: 424

PRIOR APPLICATION DATA:
APPLICATION NUMBER: AU pk 3876
FILING DATE: 12-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: pct/au91/00575
FILING DATE: 12-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: NADEL, ALAN S
REGISTRATION NUMBER: 27,363
REFERENCE/DOCKET NUMBER: 8795-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-567-2020
TELEFAX: 215-567-2891

INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULAR TYPE: peptide
US-08-075-541D-44

Query Match 100.0%; Score 48; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.0098;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLHEYMULD 9
|||||
Db 2 TLHEYMULD 10

RESULT 10
US-09-980-177A-69
Sequence 69, Application US/09980177A

Patent No. 6838084
GENERAL INFORMATION:
APPLICANT: Jochims, Ingrid
APPLICANT: Nieland, John
TITLE OF INVENTION: Cytotoxic T-Cell Epitopes of the
TITLE OF INVENTION: Papilloma Virus L1-Protein and Use Thereof in Diagnosis and
TITLE OF INVENTION: Therapy

FILE REFERENCE: 50125/036001
CURRENT APPLICATION NUMBER: US/09/980,177A
CURRENT FILING DATE: 2001-11-29
PRIOR APPLICATION NUMBER: PCT/EP00/05006
PRIOR FILING DATE: 2000-05-31

PRIOR APPLICATION NUMBER: DE 19925199.1
PRIOR FILING DATE: 1999-06-01
NUMBER OF SEQ ID NOS: 77
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 69
LENGTH: 20

TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-09-980-177A-69

Query Match 100.0%; Score 48; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.0098;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLHEYMULD 9
|||||
Db 7 TLHEYMULD 15

RESULT 11

US-09-980-523A-14
Sequence 14, Application US/09980523A
Patent No. 6783763

GENERAL INFORMATION:
APPLICANT: CHOPPIN, JEANNINE
APPLICANT: BOURGAULT VILADA, ISABELLE
APPLICANT: GUILLET, JEAN-GERARD
APPLICANT: CONNAN, FRANCES
APPLICANT: FERRIES, ESTELLE
TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 AND E7
TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
TITLE OF INVENTION: PARTICULARLY IN VACCINATION
FILE REFERENCE: WO1 AO INS
CURRENT APPLICATION NUMBER: US/09/980,523A
CURRENT FILING DATE: 2002-04-29
PRIOR APPLICATION NUMBER: PCT/FR00/01513

PRIOR FILING DATE: 2000-05-31
PRIOR APPLICATION NUMBER: FR 99/07012
PRIOR FILING DATE: 1999-06-03
NUMBER OF SEQ ID NOS: 24
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 14
LENGTH: 23
TYPE: PRT

ORGANISM: Human Papillomavirus
US-09-980-523A-14

Query Match 100.0%; Score 48; DB 2; Length 23;
Best Local Similarity 100.0%; Pred. No. 0.011;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLHEYMULD 9
|||||
Db 5 TLHEYMULD 13

RESULT 12
US-08-363-586-1
Sequence 1, Application US/08363586
Patent No. 5629161
GENERAL INFORMATION:

APPLICANT: Mueller, Martin
APPLICANT: Gissmann, Lutz
TITLE OF INVENTION: Use of HPV-16 E6 and E7-Gene Derived
TITLE OF INVENTION: Peptides for the Diagnostic Purpose
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
ADDRESSEE: Dunner
STREET: 1300 I Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/363,586
FILING DATE: 23-DEC-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/909,296
FILING DATE: 09-JUL-1992
APPLICATION NUMBER: EP 9111720.8
FILING DATE: 13-JUL-1991
ATTORNEY/AGENT INFORMATION:
NAME: Madler, Linda A.
REGISTRATION NUMBER: 33,218
REFERENCE/DOCKET NUMBER: 02481-1195-00000
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-408-4000
TELEFAX: 202-408-4400
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 30 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-363-586-1

Query Match 100.0%; Score 48; DB 1; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLHEYMIDL 9
|||
Db 2 TLHEYMIDL 10

RESULT 13
US-08-934-915-51
; Sequence 51, Application US/08934915
; Patent No. 5932412
; GENERAL INFORMATION:
; APPLICANT: DILLNER, JOAKIM
; APPLICANT: DILLNER, LENA
; APPLICANT: CHENG, HWEI-MING
; TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
; TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
; TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
; TITLE OF INVENTION: USEFUL IN IMMUNOSSAY FOR
; TITLE OF INVENTION: DIAGNOSTIC PURPOSES
; NUMBER OF SEQUENCES: 193
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: MASON & ASSOCIATES, P.A.
; STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
; CITY: CLEARWATER
; STATE: FLORIDA
; COUNTRY: U.S.A.
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 3.0
SOFTWARE: Microsoft Word 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/934,915
FILING DATE: 22-SEP-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/949,836
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: LOUISE A. FOUTCH
REGISTRATION NUMBER: 37,133
REFERENCE/DOCKET NUMBER: 1946.6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 813-538-3800
TELEFAX: 813-538-3820
INFORMATION FOR SEQ ID NO: 51:
SEQUENCE CHARACTERISTICS:
LENGTH: 30 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-934-915-51

Query Match 100.0%; Score 48; DB 1; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLHEYMIDL 9
|||
Db 6 TLHEYMIDL 14

RESULT 14
US-09-486-394-1
; Sequence 1, Application US/09486394
; Patent No. 6478749
; GENERAL INFORMATION:
; APPLICANT: Hopfl, Reinhard
; TITLE OF INVENTION: Diagnostic Kit for Skin Tests, and Method
; FILE REFERENCE: 032929-001
; CURRENT APPLICATION NUMBER: US/09/486,394
; CURRENT FILING DATE: 2000-06-20
; PRIOR FILING DATE: 1998-07-30
; PRIOR APPLICATION NUMBER: DE 197 37 409.3
; PRIOR FILING DATE: 1997-08-27
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 1
; LENGTH: 30
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(30)
; OTHER INFORMATION: E7 peptide.
US-09-486-394-1

Query Match 100.0%; Score 48; DB 2; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLHEYMIDL 9
|||
Db 7 TLHEYMIDL 15

RESULT 15
US-09-828-645-3
; Sequence 3, Application US/09828645

Patent No. 6743593
GENERAL INFORMATION:
APPLICANT: Hu, Yao Xiong
TITLE OF INVENTION: Immunological Methodology for Discerning Human Papillomavirus
FILE REFERENCE: 146-1-002
CURRENT APPLICATION NUMBER: US/09/828,645
CURRENT FILING DATE: 2001-04-05
PRIOR APPLICATION NUMBER: US 60/194,796
PRIOR FILING DATE: 2000-04-05
NUMBER OF SEQ ID NOS: 8
SOFTWARE: PatentIn version 3.1
SEQ ID NO 3
LENGTH: 30
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Derived from the E7 early region of HPV-16
US-09-828-645-3

Query Match 100.0%; Score 48; DB 2; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLHEYMIDL 9
|||||||
Db 2 TLHEYMIDL 10

RESULT 16
US-09-828-645-7
Sequence 7, Application US/09828645
Patent No. 6743593
GENERAL INFORMATION:
APPLICANT: Hu, Yao Xiong
TITLE OF INVENTION: Immunological Methodology for Discerning Human Papillomavirus
FILE REFERENCE: 146-1-002
CURRENT APPLICATION NUMBER: US/09/828,645
CURRENT FILING DATE: 2001-04-05
PRIOR APPLICATION NUMBER: US 60/194,796
PRIOR FILING DATE: 2000-04-05
NUMBER OF SEQ ID NOS: 8
SOFTWARE: PatentIn version 3.1
SEQ ID NO 7
LENGTH: 30
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Derived from the E7 early region of HPV-16
LOCATION/KEY: misc_feature
LOCATION: (19)..(19)
OTHER INFORMATION: Xaa = L-carboxymethylcysteine
US-09-828-645-7

Query Match 100.0%; Score 48; DB 2; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLHEYMIDL 9
|||||||
Db 2 TLHEYMIDL 10

RESULT 17
US-08-406-248-6
Sequence 6, Application US/08406248
Patent No. 5736318
GENERAL INFORMATION:
APPLICANT: Munger, Karl
TITLE OF INVENTION: METHOD AND KIT FOR EVALUATING
TITLE OF INVENTION: TRANSFORMED CELLS
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:

ADDRESSEE: Ann-Louise Kerner, Ph.D., Lappin & Kusner
STREET: 200 State Street
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/406,248
FILING DATE:
CLASSIFICATION: 436
ATTORNEY/AGENT INFORMATION:
NAME: McDanielis, Patricia A.
REGISTRATION NUMBER: 33,194
REFERENCE/DOCKET NUMBER: HAZ-011
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-330-1300
TELEFAX: 617-330-1311
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-406-248-6

Query Match 100.0%; Score 48; DB 1; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.057;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLHEYMIDL 9
|||||||
Db 7 TLHEYMIDL 15

RESULT 18
US-08-075-541D-42
Sequence 42, Application US/08075541D
Patent No. 6183745
GENERAL INFORMATION:
APPLICANT: TINDLE, ROBERT
APPLICANT: FRAZER, IAN
TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
NUMBER OF SEQUENCES: 56
CORRESPONDENCE ADDRESS:
ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
STREET: 1601 MARKET STREET, 36TH FLOOR
CITY: PHILADELPHIA
STATE: PENNSYLVANIA
COUNTRY: USA
ZIP: 19103-2398
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/075,541D
FILING DATE: 10-JUN-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: AU Pk 3876
FILING DATE: 12-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: Pct/au91/00575
FILING DATE: 12-DEC-1991
ATTORNEY/AGENT INFORMATION:

NAME: NADEL, ALAN S
REGISTRATION NUMBER: 27,363
REFERENCE/DOCKET NUMBER: 8795-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-567-2020
TELEFAX: 215-567-2991
INFORMATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-075-541D-42

Query Match 100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.057;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 TLHEYMDDL 9
Db 7 TLHEYMDDL 15

RESULT 19
US-09-382-616A-1
Sequence 1, Application US/09382616A
Patent No. 6200746
GENERAL INFORMATION:
APPLICANT: Fleher, Christopher
APPLICANT: He, Manxia
TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
FILE REFERENCE: 28341/6216
CURRENT APPLICATION NUMBER: US/09/382,616A
CURRENT FILING DATE: 1999-08-25
PRIOR APPLICATION NUMBER: 09/382,616
PRIOR FILING DATE: 1999-08-25
NUMBER OF SEQ ID NOS: 43
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 1
LENGTH: 98
TYPE: PRT
ORGANISM: Papillomavirus sylvilagi
US-09-382-616A-1

Query Match 100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.057;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 TLHEYMDDL 9
Db 7 TLHEYMDDL 15

RESULT 20
US-08-944-368A-4
Sequence 4, Application US/08944368A
Patent No. 6228368
GENERAL INFORMATION:
APPLICANT: Gisman, et al.
TITLE OF INVENTION: Papilloma Virus Capsomere Vaccine
TITLE OF INVENTION: Formulations and Methods of Use
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
ADDRESSEE: Borun
STREET: 233 South Wacker Drive, 6300 Sears Tower
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/944,368A
FILING DATE:
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Williams Jr., Joseph A.
REGISTRATION NUMBER: 38,659
REFERENCE/DOCKET NUMBER: 27013/34028
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-474-6300
TELEFAX: 312-474-0448
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-944-368A-4

Query Match 100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.057;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 TLHEYMDDL 9
Db 7 TLHEYMDDL 15

RESULT 21
US-09-820-764-4
Sequence 4, Application US/09820764
Patent No. 6352696
GENERAL INFORMATION:
APPLICANT: BURGER, Alexander
APPLICANT: HALEK, Michael
TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
FORMULATIONS AND METHODS OF USE
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESSES:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/820,764
FILING DATE: 30-Mar-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/026,896
FILING DATE: 20-FEB-1998
ATTORNEY/AGENT INFORMATION:
NAME: Sandercock, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-820-764-4

Query Match 100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.057;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLHEYMIDL 9
Db 7 TLHEYMIDL 15

RESULT 22
US-09-613-303-8
; Sequence 8, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A THI-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/09/613.303
; CURRENT FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-09-613-303-8

Query Match 100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.057;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLHEYMIDL 9
Db 7 TLHEYMIDL 15

RESULT 23
US-09-566-420-19
; Sequence 19, Application US/09566420
; Patent No. 6500641
; GENERAL INFORMATION:
; APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
; TITLE OF INVENTION: IMMUNE RESPONSE
; FILE REFERENCE: TBA
; CURRENT APPLICATION NUMBER: US/09/566,420
; CURRENT FILING DATE: 2000-05-05
; PRIOR APPLICATION NUMBER: 60/132,752
; PRIOR FILING DATE: 1999-05-06
; PRIOR APPLICATION NUMBER: 60/132,750
; PRIOR FILING DATE: 1999-05-06
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 19
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type E7
US-09-566-420-19

Query Match 100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.057;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLHEYMIDL 9

Db 7 TLHEYMIDL 15

RESULT 24
US-09-986-118A-4
; Sequence 4, Application US/09986118A
; Patent No. 6562351
; GENERAL INFORMATION:
; APPLICANT: BURGER, Alexander
; APPLICANT: HALBER, Michael
; TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
; FORMULATIONS AND METHODS OF USE
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY & LARDNER
; STREET: 3000 K Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/986,118A
; FILING DATE: 07-No. 6562351-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 09/026,896
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Sandercock, Colin G.
; REGISTRATION NUMBER: 31,298
; REFERENCE/DOCKET NUMBER: 37067/102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 672-5300
; TELEFAX: (202) 672-5399
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-986-118A-4

Query Match 100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.057;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLHEYMIDL 9
Db 7 TLHEYMIDL 15

RESULT 25
US-09-728-466-1
; Sequence 1, Application US/09728466
; Patent No. 6641994
; GENERAL INFORMATION:
; APPLICANT: Fisher, Christopher
; APPLICANT: He, Manxia
; TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
; FILE REFERENCE: 28341/6216
; CURRENT APPLICATION NUMBER: US/09/728,466
; CURRENT FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: 09/382,616
; PRIOR FILING DATE: 1999-08-25
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: Patentin Ver. 2.0

SEQ ID NO 1
LENGTH: 98
TYPE: PRT
ORGANISM: Papillomavirus sylvilagi
US-09-728-466-1

Query Match 100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.057;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLHEYMIDL 9
Db 7 TLHEYMIDL 15

RESULT 26
US-09-824-017-4
Sequence 4, Application US/09824017
Patent No. 6649167
GENERAL INFORMATION:
APPLICANT: BURGER, Alexander

TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
FORMULATIONS AND METHODS OF USE

NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESSES:

ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.

COUNTRY: U.S.A.
ZIP: 20007-5109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/824,017

FILING DATE: 03-Apr-2001
CLASSIFICATION: 424

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/026,896

FILING DATE: 1998-02-20
ATTORNEY/AGENT INFORMATION:

NAME: Sandercock, Colin G.
REGISTRATION NUMBER: 31,298

REFERENCE/DOCKET NUMBER: 37067/102
TELECOMMUNICATION INFORMATION:

TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 98 amino acids
TYPE: amino acid

TOPOLOGY: linear
MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 4:

US-09-824-017-4

QY 1 TLHEYMIDL 9
Db 7 TLHEYMIDL 15

RESULT 27
US-10-267-311-8
Sequence 8, Application US/10267311
Patent No. 6657055

GENERAL INFORMATION:

APPLICANT: Siegel, Marvin
APPLICANT: Chu, N. Randall

TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
FILE REFERENCE: 12071/002001

CURRENT APPLICATION NUMBER: US/10/267,311
CURRENT FILING DATE: 2002-10-09

PRIOR APPLICATION NUMBER: US/09/613,303
PRIOR FILING DATE: 2000-07-10

PRIOR APPLICATION NUMBER: US 60/143,757
PRIOR FILING DATE: 1999-07-08

NUMBER OF SEQ ID NOS: 55
SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 8

LENGTH: 98

TYPE: PRT

ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: fusion sequence

Query Match 100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.057;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLHEYMIDL 9
Db 7 TLHEYMIDL 15

RESULT 28
US-10-201-764-19
Sequence 19, Application US/10201764
Patent No. 6716623

GENERAL INFORMATION:
APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU

TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
TITLE OF INVENTION: IMMUNE RESPONSE

FILE REFERENCE: TBA

CURRENT APPLICATION NUMBER: US/10/201,764
CURRENT FILING DATE: 2002-07-22

PRIOR APPLICATION NUMBER: US/09/566,420
PRIOR FILING DATE: 2000-05-05

PRIOR APPLICATION NUMBER: 60/132,752
PRIOR FILING DATE: 1999-05-06

PRIOR APPLICATION NUMBER: 60/132,750
PRIOR FILING DATE: 1999-05-06

NUMBER OF SEQ ID NOS: 19
SOFTWARE: Patentin Ver. 2.0

SEQ ID NO 19

LENGTH: 98

TYPE: PRT

ORGANISM: Human papillomavirus type E7

Query Match 100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.057;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLHEYMIDL 9
Db 7 TLHEYMIDL 15

RESULT 29
US-09-637-746-3
Sequence 3, Application US/09637746
Patent No. 6727079
GENERAL INFORMATION:
APPLICANT: Thorgelsson, Snorri S.
APPLICANT: Woltsch, Joseph T.
APPLICANT: Zhang, Minghuang

```

; TITLE OF INVENTION: cDNA ENCODING A GENE BOG (B5T OVER-EXPRESSED GENE) AND ITS PROTEIN
; FILE REFERENCE: 11613.29USM1
; CURRENT APPLICATION NUMBER: US/09/637,746
; PRIOR FILING DATE: 2000-08-11
; PRIOR APPLICATION NUMBER: PCT/US99/04142
; PRIOR FILING DATE: 1999-02-25
; PRIOR APPLICATION NUMBER: US 60/079,567
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: US 60/075,922
; PRIOR FILING DATE: 1998-02-25
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-09-637-746-3
```

```

Query Match          100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.057;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 TLHEYMIDL 9
        |||||
Db      7 TLHEYMIDL 15
```

```

RESULT 30
US-09-501-097A-7
; Sequence 7, Application US/09501097A
; Patent No. 6734173
; GENERAL INFORMATION:
; APPLICANT: Tzyy-Chouu Wu
; APPLICANT: Chien-Fu Hung
; TITLE OF INVENTION: IMPROVED HSP DNA VACCINES
; FILE REFERENCE: 2240-169349
; CURRENT APPLICATION NUMBER: US/09/501,097A
; CURRENT FILING DATE: 2000-02-09
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 98
; TYPE: PRT
; ORGANISM: human papillomavirus
US-09-501-097A-7
```

```

Query Match          100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.057;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 TLHEYMIDL 9
        |||||
Db      7 TLHEYMIDL 15
```

```

RESULT 31
US-09-980-523A-12
; Sequence 12, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 AND E7
; TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: WO1 AO INS
; NUMBER OF SEQ ID NOS: 55
; CURRENT APPLICATION NUMBER: US/09/980,523A
; CURRENT FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: PCT/FR00/01513
```

```

; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: FR 99/07012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-09-980-523A-12
```

```

Query Match          100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.057;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 TLHEYMIDL 9
        |||||
Db      7 TLHEYMIDL 15
```

```

RESULT 32
US-09-613-303-12
; Sequence 12, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/09/613,303
; CURRENT FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 121
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-09-613-303-12
```

```

Query Match          100.0%; Score 48; DB 2; Length 121;
Best Local Similarity 100.0%; Pred. No. 0.072;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 TLHEYMIDL 9
        |||||
Db      30 TLHEYMIDL 38
```

```

RESULT 33
US-10-267-311-12
; Sequence 12, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/267,311
; CURRENT FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 121
```

```
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: fusion sequence
US-10-267-311-12
```

```
Query Match          100.0%; Score 48; DB 2; Length 121;
Best Local Similarity 100.0%; Pred. No. 0.072;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 TLHEYMDDL 9
        |||||
Db      30 TLHEYMDDL 38
```

```
RESULT 34
US-08-860-165-12
; Sequence 12, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PNO157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patentn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-12
```

```
Query Match          100.0%; Score 48; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 TLHEYMDDL 9
        |||||
Db     105 TLHEYMDDL 113
```

```
RESULT 35
US-09-359-382-12
; Sequence 12, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PNO157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patentn Ver. 2.0
; SEQ ID NO 12
```

```
;; LENGTH: 172
;; TYPE: PRT
;; ORGANISM: Human papillomavirus type 16
US-09-359-382-12
```

```
Query Match          100.0%; Score 48; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 TLHEYMDDL 9
        |||||
Db     105 TLHEYMDDL 113
```

```
RESULT 36
US-09-462-993-2
; Sequence 2, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
; APPLICANT: KIENY, Marie-Paule
; APPLICANT: BALLOU, Jean-Marc
; APPLICANT: BIZOUARNE, Nadine
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
; TITLE OF INVENTION: POLYPEPTIDE WITH MODIFIED CELL LOCATION
; FILE REFERENCE: 017753-122
; CURRENT APPLICATION NUMBER: US/09/462,993
; CURRENT FILING DATE: 2000-04-17
; PRIOR APPLICATION NUMBER: PCT/FR98/01576
; PRIOR FILING DATE: 1998-07-17
; PRIOR APPLICATION NUMBER: FR 97/09152
; PRIOR FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: Patentn Ver. 2.2
; SEQ ID NO 2
; LENGTH: 185
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from human papillomavirus, strain
; OTHER INFORMATION: HPV-16, E7 fusion signals of the rabbits
; OTHER INFORMATION: glycoprotein, clone E7*TW.
US-09-462-993-2
```

```
Query Match          100.0%; Score 48; DB 2; Length 185;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 TLHEYMDDL 9
        |||||
Db     32 TLHEYMDDL 40
```

```
RESULT 37
US-09-613-303-35
; Sequence 35, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/09/613,303
; CURRENT FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 35
; LENGTH: 198
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
```

OTHER INFORMATION: fusion sequence
US-09-613-303-35

Query Match 100.0%; Score 48; DB 2; Length 198;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLHEVMDL 9
|||||
DB 107 TLHEVMDL 115

RESULT 38
US-10-267-311-35
Sequence 35, Application US/10267311

PATENT NO. 6657055
GENERAL INFORMATION:
APPLICANT: Siegel, Maryin
APPLICANT: Chu, N. Randall
APPLICANT: Mizen, Lee A.
TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
FILE REFERENCE: 12071/002001
CURRENT APPLICATION NUMBER: US/10/267,311
CURRENT FILING DATE: 2002-10-09
PRIOR APPLICATION NUMBER: US/09/613,303
PRIOR FILING DATE: 2000-07-10
PRIOR APPLICATION NUMBER: US 60/143,757
PRIOR FILING DATE: 1999-07-08
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 35
LENGTH: 198
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: fusion sequence
US-10-267-311-35

Query Match 100.0%; Score 48; DB 2; Length 198;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLHEVMDL 9
|||||
DB 107 TLHEVMDL 115

RESULT 39
US-09-485-885-1
Sequence 1, Application US/09485885

PATENT NO. 6342224
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabazon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Fernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/09/485,885
CURRENT FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 1
LENGTH: 220
TYPE: PRT
ORGANISM: Homo sapien
US-09-485-885-1

Query Match 100.0%; Score 48; DB 2; Length 220;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLHEVMDL 9
|||||
DB 120 TLHEVMDL 128

RESULT 40
US-09-485-885-8
Sequence 8, Application US/09485885

PATENT NO. 6342224
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabazon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Fernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/09/485,885
CURRENT FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 8
LENGTH: 220
TYPE: PRT
ORGANISM: Homo sapien
US-09-485-885-8

Query Match 100.0%; Score 48; DB 2; Length 220;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLHEVMDL 9
|||||
DB 120 TLHEVMDL 128

RESULT 41
US-09-485-885-12
Sequence 12, Application US/09485885

PATENT NO. 6342224
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabazon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Fernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/09/485,885
CURRENT FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 12
LENGTH: 239
TYPE: PRT
ORGANISM: Homo sapien
US-09-485-885-12

Query Match 100.0%; Score 48; DB 2; Length 239;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 THEWMLD 9
DB 139 THEWMLD 147

RESULT 42

US-08-459-818-20
Sequence 20, Application US/08459818
Patent No. 5851795
GENERAL INFORMATION:
APPLICANT: Linsley, Peter S.
APPLICANT: Ledbetter, Jeffrey A.
APPLICANT: Damle, Nitin K.
APPLICANT: Brady, William
TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merchant & Gould
STREET: 1150 Santa Monica Blvd., Suite 400
CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90025
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: FastSeq 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/459,818
FILING DATE: 02-JUN-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Adriano, Sarah B.
REGISTRATION NUMBER: 34,470
REFERENCE/DOCKET NUMBER: 30436.35US02
TELECOMMUNICATION INFORMATION:
TELEPHONE: 310-445-1140
TELEFAX: 310-445-9031
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 253 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-459-818-20

Query Match 100.0%; Score 48; DB 1; Length 253;
Best Local Similarity 100.0%; Pred. No. 0.16;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 THEWMLD 9
DB 162 THEWMLD 170

RESULT 43
US-08-889-666-20
Sequence 20, Application US/08889666
Patent No. 588579
GENERAL INFORMATION:
APPLICANT: Linsley, Peter S.
APPLICANT: Ledbetter, Jeffrey A.
APPLICANT: Damle, Nitin K.
APPLICANT: Brady, William
APPLICANT: Kiener, Peter A.
TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merchant & Gould
STREET: 1150 Santa Monica Blvd., Suite 400

CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90025
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/889,666
FILING DATE: 08-JUL-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/375390
FILING DATE: 18-JAN-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Adriano, Sarah B.
REGISTRATION NUMBER: 34,470
REFERENCE/DOCKET NUMBER: 30436-35US01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 310-445-1140
TELEFAX: 310-445-9031
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 253 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-889-666-20

Query Match 100.0%; Score 48; DB 1; Length 253;
Best Local Similarity 100.0%; Pred. No. 0.16;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 THEWMLD 9
DB 162 THEWMLD 170

RESULT 44
US-08-465-078-20
Sequence 20, Application US/08465078
Patent No. 5885796
GENERAL INFORMATION:
APPLICANT: Linsley, Peter S.
APPLICANT: Ledbetter, Jeffrey A.
APPLICANT: Damle, Nitin K.
APPLICANT: Brady, William
APPLICANT: Kiener, Peter A.
TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merchant & Gould
STREET: 1150 Santa Monica Blvd., Suite 400
CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90025
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/465,078
FILING DATE: 05-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/375390
FILING DATE: 18-JAN-1995

ATTORNEY/AGENT INFORMATION:
NAME: Adriano, Sarah B.
REGISTRATION NUMBER: 34,470
REFERENCE/DOCKET NUMBER: 30436-35US01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 310-445-1140
TELEFAX: 310-445-9031
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 253 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-465-078-20

Query Match 100.0%; Score 48; DB 1; Length 253;
Best Local Similarity 100.0%; Pred. No. 0.16;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLHEYMIDL 9
Db 162 TLHEYMIDL 170

RESULT 45
US-08-725-776-20
Sequence 20, Application US/08725776
Patent No. 5968510
GENERAL INFORMATION:
APPLICANT: Linsley, Peter S.
APPLICANT: Ledbetter, Jeffrey A.
APPLICANT: Damle, Mitin K.
APPLICANT: Brady, William
APPLICANT: Kienert, Peter A.
TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merchant & Gould
STREET: 11150 Santa Monica Blvd., Suite 400
CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90025
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/725,776
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/375390
FILING DATE: 18-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Adriano, Sarah B.
REGISTRATION NUMBER: 34,470
REFERENCE/DOCKET NUMBER: 30436-35US01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 310-445-1140
TELEFAX: 310-445-9031
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 253 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-725-776-20

Query Match 100.0%; Score 48; DB 1; Length 253;
Best Local Similarity 100.0%; Pred. No. 0.16;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Best Local Similarity 100.0%; Pred. No. 0.16;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLHEYMIDL 9
Db 162 TLHEYMIDL 170

RESULT 46
US-08-488-062-20
Sequence 20, Application US/08488062
Patent No. 5977318
GENERAL INFORMATION:
APPLICANT: Linsley, Peter S.
APPLICANT: Ledbetter, Jeffrey A.
APPLICANT: Damle, Mitin K.
APPLICANT: Brady, William
APPLICANT: Kienert, Peter A.
TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merchant & Gould
STREET: 11150 Santa Monica Blvd., Suite 400
CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90025
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/488,062
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/375390
FILING DATE: 18-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Adriano, Sarah B.
REGISTRATION NUMBER: 34,470
REFERENCE/DOCKET NUMBER: 30436-35US01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 310-445-1140
TELEFAX: 310-445-9031
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 253 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-488-062-20

Query Match 100.0%; Score 48; DB 1; Length 253;
Best Local Similarity 100.0%; Pred. No. 0.16;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLHEYMIDL 9
Db 162 TLHEYMIDL 170

RESULT 47
US-08-117-083-9
Sequence 9, Application US/08117083
Patent No. 5719054
GENERAL INFORMATION:
APPLICANT: Boursnell, Michael E.
APPLICANT: Inglis, Stephen C.
APPLICANT: Munro, Alan J.
TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human

```

; TITLE OF INVENTION: Papilloma Virus Proteins
; NUMBER OF SEQUENCES: 70
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Walter H. Dreyer
; STREET: 4 Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/117,083
; FILING DATE: 10-SEP-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Dreyer, Walter H.
; REGISTRATION NUMBER: 24,190
; REFERENCE/DOCKET NUMBER: A-58783
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-781-1989
; TELEFAX: 415-398-3249
; TELEX: 910 277299
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 263 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..263
; OTHER INFORMATION: /note="Xaa refers to stop codon in
; US-08-117-083-9
; OTHER INFORMATION: the open reading frame."

Query Match      100.0%; Score 48; DB 1; Length 263;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TLHEYMULD 9
        |||||||
        168 TLHEYMULD 176

Db

RESULT 48
US-08-860-165-10
; Sequence 10, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Scirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; PRIOR FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU P0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
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; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

Query Match      100.0%; Score 48; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TLHEYMULD 9
        |||||||
        167 TLHEYMULD 175

Db

RESULT 49
US-09-359-382-10
; Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Scirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; PRIOR FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU P0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-10

Query Match      100.0%; Score 48; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TLHEYMULD 9
        |||||||
        167 TLHEYMULD 175

Db

RESULT 50
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428607
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; APPLICANT: MALLIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A
; PRIOR FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match      100.0%; Score 48; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.17;
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Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLHBYMLDL 9
Db 167 TLHBYMLDL 175

Search completed: May 5, 2006, 03:12:58
Job time : 24.7 secs

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GenCore version 5.1.7
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OM protein - protein search, using SW model

Run on: May 5, 2006, 07:56:48 ; Search time 56 Seconds
(without alignments)
67.151 Million cell updates/sec

Title: US-08-170-344-13
Perfect score: 48
Sequence: 1 TLHEXYMLDL 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

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3: /cgn2_6/prodata/1/pubppaa/US09_PUBCOMB.pep:*
4: /cgn2_6/prodata/1/pubppaa/US10A_PUBCOMB.pep:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
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2	48	100.0	9	3	US-09-909-460-105	Sequence 105, App
3	48	100.0	9	3	US-09-872-836-105	Sequence 105, App
4	48	100.0	9	4	US-10-128-711-69	Sequence 69, App1
5	48	100.0	9	4	US-10-133-210-270	Sequence 270, App
6	48	100.0	9	4	US-10-365-808-4	Sequence 4, App1
7	48	100.0	9	5	US-10-871-138-4	Sequence 4, App1
8	48	100.0	9	5	US-10-758-970-105	Sequence 105, App
9	48	100.0	9	5	US-10-751-845-59	Sequence 59, App
10	48	100.0	9	5	US-10-924-377-4	Sequence 4, App1
11	48	100.0	10	3	US-09-891-823-49	Sequence 49, App1
12	48	100.0	10	4	US-10-365-908-49	Sequence 49, App1
13	48	100.0	10	5	US-10-871-138-49	Sequence 49, App1
14	48	100.0	15	4	US-10-648-547-69	Sequence 69, App1
15	48	100.0	15	4	US-10-648-547-92	Sequence 92, App1
16	48	100.0	15	4	US-10-476-570-45	Sequence 45, App1
17	48	100.0	15	4	US-10-306-541-69	Sequence 69, App1
18	48	100.0	15	4	US-10-306-541-92	Sequence 92, App1
19	48	100.0	19	5	US-10-751-845-67	Sequence 67, App1
20	48	100.0	20	4	US-10-432-465-14	Sequence 44, App1
21	48	100.0	20	4	US-10-476-570-14	Sequence 14, App1
22	48	100.0	20	5	US-10-890-526-69	Sequence 69, App1
23	48	100.0	21	4	US-10-476-570-15	Sequence 15, App1
24	48	100.0	23	4	US-10-476-570-57	Sequence 57, App1
25	48	100.0	23	5	US-10-858-384-14	Sequence 14, App1
26	48	100.0	30	3	US-09-828-645-3	Sequence 3, App1
27	48	100.0	30	3	US-09-828-645-7	Sequence 7, App1

28	48	100.0	30	5	US-10-827-007-3	Sequence 3, App1
29	48	100.0	30	5	US-10-827-007-7	Sequence 7, App1
30	48	100.0	30	5	US-10-827-083-3	Sequence 3, App1
31	48	100.0	30	5	US-10-827-083-7	Sequence 7, App1
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33	48	100.0	98	3	US-09-820-765-4	Sequence 4, App1
34	48	100.0	98	3	US-09-824-017-4	Sequence 4, App1
35	48	100.0	98	3	US-09-966-118A-4	Sequence 8, App1
36	48	100.0	98	4	US-10-267-311-8	Sequence 8, App1
37	48	100.0	98	4	US-10-177-390-8	Sequence 8, App1
38	48	100.0	98	4	US-10-201-764-19	Sequence 19, App1
39	48	100.0	98	4	US-10-392-113-29	Sequence 29, App1
40	48	100.0	98	4	US-10-654-129-4	Sequence 4, App1
41	48	100.0	98	4	US-10-681-410-19	Sequence 19, App1
42	48	100.0	98	4	US-10-772-988-3	Sequence 3, App1
43	48	100.0	98	4	US-10-479-541-5	Sequence 5, App1
44	48	100.0	98	5	US-10-042-526A-4	Sequence 4, App1
45	48	100.0	98	5	US-10-657-399-1	Sequence 1, App1
46	48	100.0	98	5	US-10-858-384-12	Sequence 12, App1
47	48	100.0	98	5	US-10-484-063-26	Sequence 26, App1
48	48	100.0	98	5	US-10-343-448-5	Sequence 5, App1
49	48	100.0	98	5	US-10-679-956-8	Sequence 8, App1
50	48	100.0	98	5	US-10-367-057-17	Sequence 17, App1
51	48	100.0	98	6	US-11-077-939-5	Sequence 5, App1
52	48	100.0	98	6	US-10-115-440-7	Sequence 7, App1
53	48	100.0	99	4	US-10-472-724-4	Sequence 4, App1
54	48	100.0	117	5	US-10-751-845-126	Sequence 126, App
55	48	100.0	121	4	US-10-267-311-12	Sequence 12, App1
56	48	100.0	121	5	US-10-679-956-12	Sequence 12, App1
57	48	100.0	185	6	US-11-072-288-2	Sequence 2, App1
58	48	100.0	198	4	US-10-267-311-35	Sequence 35, App1
59	48	100.0	198	5	US-10-679-956-35	Sequence 35, App1
60	48	100.0	220	4	US-10-000-903-1	Sequence 1, App1
61	48	100.0	220	4	US-10-000-903-8	Sequence 8, App1
62	48	100.0	220	5	US-10-899-771-1	Sequence 1, App1
63	48	100.0	220	5	US-10-899-771-8	Sequence 8, App1
64	48	100.0	235	5	US-10-751-845-157	Sequence 157, App
65	48	100.0	237	5	US-10-751-845-158	Sequence 158, App
66	48	100.0	239	5	US-10-000-903-12	Sequence 12, App1
67	48	100.0	239	5	US-10-899-771-12	Sequence 12, App1
68	48	100.0	261	5	US-10-751-845-160	Sequence 160, App
69	48	100.0	266	3	US-09-367-309A-1	Sequence 1, App1
70	48	100.0	289	4	US-10-115-440-5	Sequence 5, App1
71	48	100.0	295	4	US-10-267-311-33	Sequence 33, App1
72	48	100.0	295	5	US-10-679-956-33	Sequence 33, App1
73	48	100.0	324	4	US-10-267-311-25	Sequence 25, App1
74	48	100.0	324	5	US-10-679-956-25	Sequence 25, App1
75	48	100.0	334	4	US-10-472-724-16	Sequence 16, App1
76	48	100.0	371	5	US-10-000-903-6	Sequence 6, App1
77	48	100.0	371	5	US-10-899-771-6	Sequence 6, App1
78	48	100.0	390	4	US-10-000-903-14	Sequence 14, App1
79	48	100.0	421	4	US-10-899-771-14	Sequence 14, App1
80	48	100.0	488	4	US-10-296-770-7	Sequence 7, App1
81	48	100.0	488	4	US-10-367-095-8	Sequence 8, App1
82	48	100.0	488	4	US-10-368-046-8	Sequence 8, App1
83	48	100.0	488	4	US-10-367-367-8	Sequence 8, App1
84	48	100.0	488	5	US-10-918-337-8	Sequence 8, App1
85	48	100.0	493	4	US-10-267-311-19	Sequence 19, App1
86	48	100.0	493	5	US-10-679-956-19	Sequence 19, App1
87	48	100.0	639	4	US-10-267-311-17	Sequence 17, App1
88	48	100.0	639	5	US-10-679-956-17	Sequence 17, App1
89	48	100.0	641	4	US-10-267-311-51	Sequence 51, App1
90	48	100.0	641	4	US-10-679-956-51	Sequence 51, App1
91	48	100.0	647	5	US-10-679-956-51	Sequence 53, App1
92	48	100.0	647	5	US-10-679-956-53	Sequence 53, App1
93	48	100.0	648	5	US-10-267-311-29	Sequence 29, App1
94	48	100.0	648	5	US-10-679-956-29	Sequence 29, App1
95	48	100.0	711	4	US-10-267-311-41	Sequence 41, App1
96	48	100.0	711	5	US-10-679-956-41	Sequence 41, App1
97	48	100.0	724	4	US-10-267-311-45	Sequence 45, App1
98	48	100.0	724	5	US-10-679-956-45	Sequence 45, App1
99	48	100.0	805	4	US-10-367-095-9	Sequence 9, App1
100	48	100.0	805	4	US-10-368-046-9	Sequence 9, App1

101	48	100.0	805	4	US-10-367-367-9	Sequence 9, Appl1	174	32	66.7	159	4	US-10-424-599-258138	Sequence 258138,
102	48	100.0	805	5	US-10-918-337-9	Sequence 9, Appl1	175	32	66.7	171	4	US-10-425-114-52691	Sequence 52691, A
103	44	91.7	21	5	US-10-484-063-11	Sequence 11, Appl1	176	32	66.7	203	3	US-09-738-626-6474	Sequence 6474, Ap
104	44	91.7	21	5	US-09-367-309A-3	Sequence 5, Appl1	177	32	66.7	241	4	US-10-424-599-224913	Sequence 224913,
105	43	86.6	9	5	US-10-924-377-5	Sequence 5, Appl1	178	32	66.7	253	4	US-10-424-599-208135	Sequence 208135,
106	39	81.2	9	5	US-10-924-377-6	Sequence 6, Appl1	179	32	66.7	264	4	US-10-437-963-175433	Sequence 175433,
107	38	81.2	15	4	US-10-476-570-46	Sequence 46, Appl1	180	32	66.7	266	4	US-10-767-701-11169	Sequence 11169, A
108	39	79.2	9	2	US-08-344-824-137	Sequence 137, App	181	32	66.7	298	4	US-10-425-115-137362	Sequence 137362
109	38	79.2	9	3	US-09-891-823-7	Sequence 7, Appl1	182	32	66.7	303	4	US-10-425-114-65300	Sequence 65300, A
110	38	79.2	9	4	US-10-365-908-7	Sequence 7, Appl1	183	32	66.7	303	4	US-10-425-115-37360	Sequence 37360,
111	38	79.2	9	5	US-10-871-138-7	Sequence 7, Appl1	184	32	66.7	306	4	US-10-425-115-37363	Sequence 37363,
112	38	79.2	18	5	US-10-751-845-108	Sequence 108, App	185	32	66.7	318	4	US-10-425-115-193374	Sequence 193374,
113	38	79.2	9	5	US-10-924-377-3	Sequence 3, Appl1	186	32	66.7	332	4	US-10-425-114-62181	Sequence 62181, A
114	38	79.2	10	4	US-09-891-823-11	Sequence 11, Appl1	187	32	66.7	332	4	US-10-425-114-64746	Sequence 64746, A
115	38	79.2	10	4	US-10-365-908-11	Sequence 11, Appl1	188	32	66.7	336	4	US-10-425-114-67444	Sequence 67444, A
116	38	79.2	10	5	US-10-871-138-11	Sequence 11, Appl1	189	32	66.7	366	5	US-10-954-778-107	Sequence 107, App
117	36	75.0	874	4	US-10-437-963-115848	Sequence 115848,	190	32	66.7	381	4	US-10-282-122A-76607	Sequence 76607, A
118	35	72.9	54	3	US-09-864-761-40216	Sequence 40216, A	191	32	66.7	420	4	US-10-369-493-19568	Sequence 19568, A
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122	35	72.9	276	4	US-10-437-963-142054	Sequence 142054,	195	32	66.7	472	3	US-09-738-626-6752	Sequence 6752, Ap
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126	35	72.9	501	3	US-09-730-772-13	Sequence 13, Appl1	199	32	66.7	624	6	US-11-128-073-24	Sequence 24, Appl1
127	35	72.9	501	3	US-09-735-848-13	Sequence 13, Appl1	200	32	66.7	656	4	US-10-425-114-57946	Sequence 57946, A
128	35	72.9	501	3	US-09-574-818-13	Sequence 13, Appl1	201	32	66.7	662	4	US-10-425-115-193377	Sequence 193377,
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131	35	72.9	501	4	US-10-356-513-1	Sequence 1, Appl1	204	32	66.7	695	4	US-10-312-273-251	Sequence 251, App
132	35	72.9	501	4	US-10-356-513-5	Sequence 5, Appl1	205	32	66.7	705	4	US-10-289-762-490	Sequence 490, App
133	35	72.9	501	4	US-10-800-917-2	Sequence 2, Appl1	206	32	66.7	712	4	US-10-231-353-22	Sequence 22, Appl1
134	35	72.9	501	6	US-11-080-494-1	Sequence 1, Appl1	207	32	66.7	712	6	US-11-128-073-22	Sequence 22, Appl1
135	35	72.9	502	5	US-09-813-398-37	Sequence 37, Appl1	208	32	66.7	716	4	US-10-369-493-2175	Sequence 2175, Ap
136	35	72.9	502	5	US-10-826-324-37	Sequence 37, Appl1	209	32	66.7	747	4	US-10-282-122A-69873	Sequence 69873, A
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139	34	70.8	9	5	US-10-924-377-2	Sequence 2, Appl1	212	32	66.7	793	6	US-11-128-073-28	Sequence 28, Appl1
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141	34	70.8	46	4	US-10-437-963-167603	Sequence 167603,	214	32	66.7	983	4	US-10-047-757-2	Sequence 2, Appl1
142	34	70.8	152	4	US-10-425-115-251602	Sequence 251602,	215	32	66.7	986	5	US-10-481-032A-538	Sequence 538, App
143	34	70.8	330	6	US-11-097-143-21243	Sequence 21243, A	216	32	66.7	991	4	US-10-231-353-13	Sequence 12, Appl1
144	34	70.8	430	4	US-10-437-963-192450	Sequence 192450,	217	32	66.7	991	6	US-11-128-073-12	Sequence 12, Appl1
145	34	70.8	440	4	US-10-094-748-1912	Sequence 1912, Ap	218	32	66.7	1004	5	US-10-481-032A-166	Sequence 166, App
146	34	70.8	805	4	US-10-369-493-22100	Sequence 22100, A	219	32	66.7	1006	4	US-10-437-963-107945	Sequence 107945,
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148	34	70.8	1032	4	US-10-282-122A-58344	Sequence 58344, A	221	32	66.7	1069	6	US-10-231-353-2	Sequence 2, Appl1
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152	33	68.8	137	5	US-10-501-282-2892	Sequence 2892, Ap	225	32	66.7	1109	5	US-10-450-763-42830	Sequence 42830, A
153	33	68.8	227	4	US-10-424-599-191814	Sequence 191814,	226	32	66.7	1116	4	US-10-369-493-18965	Sequence 18965, A
154	33	68.8	232	4	US-10-424-599-245939	Sequence 245939,	227	32	66.7	1127	6	US-10-097-143-8172	Sequence 8172, Ap
155	33	68.8	238	4	US-10-282-122A-71744	Sequence 71744, A	228	32	66.7	1150	4	US-10-231-353-8	Sequence 8, Appl1
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157	33	68.8	340	4	US-10-437-963-161840	Sequence 161840,	230	32	66.7	1170	4	US-10-208-731-6	Sequence 6, Appl1
158	33	68.8	413	3	US-09-930-512-76	Sequence 76, Appl1	231	32	66.7	1170	6	US-11-097-143-36009	Sequence 36009, A
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161	33	68.8	926	4	US-10-369-493-5949	Sequence 5949, Ap	234	31	64.6	10	4	US-10-083-768-74	Sequence 74, Appl1
162	33	68.8	969	6	US-11-097-143-41847	Sequence 41847, A	235	31	64.6	15	4	US-10-648-547-80	Sequence 80, Appl1
163	33	68.8	1135	4	US-10-388-566-689	Sequence 689, App	236	31	64.6	15	4	US-10-306-541-80	Sequence 80, Appl1
164	33	68.8	1135	4	US-10-389-566-1109	Sequence 1109, Ap	237	31	64.6	48	4	US-10-425-115-222556	Sequence 222556,
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166	33	68.8	1201	6	US-11-097-143-39342	Sequence 39342, A	239	31	64.6	70	4	US-10-425-115-303761	Sequence 303761,
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169	32	66.7	53	4	US-10-425-115-201438	Sequence 201438,	242	31	64.6	85	4	US-10-195-144-69	Sequence 69, Appl1
170	32	66.7	61	4	US-10-425-115-354913	Sequence 354913,	243	31	64.6	85	4	US-10-345-072-62	Sequence 62, Appl1
171	32	66.7	66	4	US-10-424-599-273088	Sequence 273088,	244	31	64.6	95	3	US-09-934-054-11	Sequence 12, Appl1
172	32	66.7	87	5	US-10-496-905-524	Sequence 524, App	245	31	64.6	95	3	US-09-985-011-27	Sequence 27, Appl1
173	32	66.7	105	4	US-10-425-114-43381	Sequence 43381, A	246	31	64.6	95	5	US-10-480-693-28	Sequence 28, Appl1

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248	31	64.6	99	4	US-10-425-115-216015	Sequence 216015,	321	31	64.6	373	4	US-10-437-963-197660	Sequence 197660,
249	31	64.6	100	4	US-10-724-972A-6142	Sequence 6142, Ap	322	31	64.6	375	4	US-10-437-963-119783	Sequence 119783,
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251	31	64.6	105	4	US-10-074-978A-303	Sequence 303, App	324	31	64.6	384	4	US-10-437-963-136287	Sequence 136287,
252	31	64.6	123	4	US-10-424-599-252625	Sequence 252625,	325	31	64.6	395	4	US-10-374-780A-1270	Sequence 1270, Ap
253	31	64.6	124	4	US-10-437-963-165108	Sequence 165108,	326	31	64.6	395	4	US-10-412-699B-1423	Sequence 1423, Ap
254	31	64.6	128	4	US-10-408-765A-457	Sequence 457, App	327	31	64.6	399	3	US-09-930-512-73	Sequence 512, App1
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256	31	64.6	140	4	US-10-767-701-59688	Sequence 59688, A	329	31	64.6	399	5	US-10-374-780A-194	Sequence 194, App
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258	31	64.6	149	4	US-10-467-701-39084	Sequence 39084, A	331	31	64.6	432	5	US-10-437-963-120430	Sequence 120430,
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260	31	64.6	156	4	US-10-369-493-13339	Sequence 13339, A	333	31	64.6	436	3	US-09-738-849-16	Sequence 849-16
261	31	64.6	175	3	US-09-815-242-11267	Sequence 11267, A	334	31	64.6	436	3	US-09-574-819-14	Sequence 819-14
262	31	64.6	175	4	US-10-282-122A-58572	Sequence 58572, A	335	31	64.6	436	3	US-09-930-512-72	Sequence 512-72
263	31	64.6	182	5	US-10-510-812-56	Sequence 56, App1	336	31	64.6	436	3	US-10-379-830-14	Sequence 830-14
264	31	64.6	194	4	US-10-767-701-57863	Sequence 57863, A	337	31	64.6	436	4	US-10-164-279-57	Sequence 164-279
265	31	64.6	195	4	US-10-425-115-285458	Sequence 285458,	338	31	64.6	436	5	US-10-851-438-85	Sequence 438-85
266	31	64.6	204	4	US-10-424-599-257242	Sequence 257242,	339	31	64.6	438	4	US-10-424-599-173201	Sequence 173201
267	31	64.6	207	4	US-10-282-122A-60525	Sequence 60525, A	340	31	64.6	455	3	US-09-825-751A-20	Sequence 751A-20
268	31	64.6	210	4	US-10-437-963-159669	Sequence 159669,	341	31	64.6	455	3	US-09-930-512-20	Sequence 512-20
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270	31	64.6	227	4	US-10-080-334-208	Sequence 208, App	343	31	64.6	455	4	US-10-851-438-20	Sequence 438-20
271	31	64.6	233	6	US-11-097-143-18378	Sequence 18378, A	344	31	64.6	475	4	US-10-225-066A-1064	Sequence 1064, App
272	31	64.6	244	4	US-10-424-599-173208	Sequence 173208,	345	31	64.6	479	4	US-10-374-780A-2838	Sequence 2838, Ap
273	31	64.6	244	4	US-10-425-115-331197	Sequence 331197,	346	31	64.6	479	5	US-10-225-066A-1064	Sequence 1064, Ap
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275	31	64.6	256	4	US-10-778-173-114	Sequence 114, App	348	31	64.6	485	4	US-10-437-963-201778	Sequence 201778,
276	31	64.6	256	4	US-10-378-536-20	Sequence 172, App1	349	31	64.6	493	4	US-10-437-963-159885	Sequence 159885,
277	31	64.6	256	4	US-10-302-267-172	Sequence 172, App	350	31	64.6	506	4	US-10-437-963-159671	Sequence 159671,
278	31	64.6	262	5	US-10-739-930-10590	Sequence 10590, A	351	31	64.6	545	4	US-10-437-963-159671	Sequence 159671,
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281	31	64.6	273	4	US-10-425-114-53924	Sequence 53924, A	354	31	64.6	559	4	US-10-437-963-108142	Sequence 108142,
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293	31	64.6	309	5	US-10-739-930-9439	Sequence 9439, Ap	366	31	64.6	884	4	US-10-437-963-108154	Sequence 108154,
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302	31	64.6	329	4	US-10-424-599-334	Sequence 334, App	375	31	64.6	1274	4	US-10-437-963-108146	Sequence 108146,
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304	31	64.6	334	4	US-10-235-066A-132	Sequence 132, App	377	31	64.6	1524	4	US-10-097-534-13	Sequence 534-13
305	31	64.6	334	4	US-10-374-780A-1286	Sequence 1286, App	378	31	64.6	1562	4	US-10-437-963-108145	Sequence 108145
306	31	64.6	334	4	US-10-412-699B-1924	Sequence 1924, Ap	379	31	64.6	1622	5	US-10-450-763-57852	Sequence 57852, A
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309	31	64.6	338	4	US-10-412-699B-514	Sequence 514, App	382	31	64.6	1572	5	US-10-487-132-1	Sequence 487-132-1
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312	31	64.6	354	4	US-10-156-761-8704	Sequence 8704, Ap	385	31	64.6	1702	5	US-10-450-763-38864	Sequence 38864, A
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315	31	64.6	357	4	US-10-424-599-153969	Sequence 153969,	388	31	64.6	1837	4	US-10-437-963-200897	Sequence 200897,
316	31	64.6	358	4	US-10-412-699B-1892	Sequence 1892, Ap	389	31	64.6	2725	4	US-10-295-027-928	Sequence 928, App
317	31	64.6	361	4	US-10-425-114-66370	Sequence 66370, A	390	31	64.6	2725	4	US-10-437-963-138278	Sequence 138278,
318	31	64.6	364	4	US-10-412-699B-634	Sequence 634, App	391	31	64.6	2725	4	US-10-437-963-138278	Sequence 138278,
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874	29	60.4	462	4	US-10-179-513-298	Sequence 298, App	947	29	60.4	462	4	US-10-199-462-298	Sequence 298, App
875	29	60.4	462	4	US-10-179-514-298	Sequence 298, App	948	29	60.4	462	4	US-10-201-324-298	Sequence 298, App
876	29	60.4	462	4	US-10-179-522-298	Sequence 298, App	949	29	60.4	462	4	US-10-201-328-298	Sequence 298, App
877	29	60.4	462	4	US-10-180-556-298	Sequence 298, App	950	29	60.4	462	4	US-10-201-527-298	Sequence 298, App
878	29	60.4	462	4	US-10-180-560-298	Sequence 298, App	951	29	60.4	462	4	US-10-201-529-298	Sequence 298, App
879	29	60.4	462	4	US-10-183-015-298	Sequence 298, App	952	29	60.4	462	4	US-10-201-530-298	Sequence 298, App
880	29	60.4	462	4	US-10-184-615-298	Sequence 298, App	953	29	60.4	462	4	US-10-201-530-298	Sequence 298, App
881	29	60.4	462	4	US-10-184-620-298	Sequence 298, App	954	29	60.4	462	4	US-10-202-408-298	Sequence 298, App
882	29	60.4	462	4	US-10-184-643-298	Sequence 298, App	955	29	60.4	462	4	US-10-202-409-298	Sequence 298, App
883	29	60.4	462	4	US-10-184-656-298	Sequence 298, App	956	29	60.4	462	4	US-10-202-411-298	Sequence 298, App
884	29	60.4	462	4	US-10-192-010-298	Sequence 298, App	957	29	60.4	462	4	US-10-202-472-298	Sequence 298, App
885	29	60.4	462	4	US-10-205-908-298	Sequence 298, App	958	29	60.4	462	4	US-10-205-502-298	Sequence 298, App
886	29	60.4	462	4	US-10-184-619-298	Sequence 298, App	959	29	60.4	462	4	US-10-205-511-298	Sequence 298, App
887	29	60.4	462	4	US-10-187-599-298	Sequence 298, App	960	29	60.4	462	4	US-10-205-517-298	Sequence 298, App
888	29	60.4	462	4	US-10-187-750-298	Sequence 298, App	961	29	60.4	462	4	US-10-205-902-298	Sequence 298, App
889	29	60.4	462	4	US-10-188-780-298	Sequence 298, App	962	29	60.4	462	4	US-10-205-907-298	Sequence 298, App
890	29	60.4	462	4	US-10-192-015-298	Sequence 298, App	963	29	60.4	462	4	US-10-205-928-298	Sequence 298, App
891	29	60.4	462	4	US-10-194-394-298	Sequence 298, App	964	29	60.4	462	4	US-10-176-484-298	Sequence 298, App
892	29	60.4	462	4	US-10-194-425-298	Sequence 298, App	965	29	60.4	462	4	US-10-196-756-298	Sequence 298, App
893	29	60.4	462	4	US-10-194-485-298	Sequence 298, App	966	29	60.4	462	4	US-10-196-758-298	Sequence 298, App
894	29	60.4	462	4	US-10-195-885-298	Sequence 298, App	967	29	60.4	462	4	US-10-198-770-298	Sequence 298, App
895	29	60.4	462	4	US-10-195-899-298	Sequence 298, App	968	29	60.4	462	4	US-10-199-308-298	Sequence 298, App
896	29	60.4	462	4	US-10-196-748-298	Sequence 298, App	969	29	60.4	462	4	US-10-200-617-298	Sequence 298, App
897	29	60.4	462	4	US-10-196-750-298	Sequence 298, App	970	29	60.4	462	4	US-10-205-893-298	Sequence 298, App
898	29	60.4	462	4	US-10-197-699-298	Sequence 298, App	971	29	60.4	462	4	US-10-205-897-298	Sequence 298, App
899	29	60.4	462	4	US-10-197-700-298	Sequence 298, App	972	29	60.4	462	4	US-10-195-896-298	Sequence 298, App
900	29	60.4	462	4	US-10-197-705-298	Sequence 298, App	973	29	60.4	462	4	US-10-006-485A-212	Sequence 212, App
901	29	60.4	462	4	US-10-197-708-298	Sequence 298, App	974	29	60.4	462	4	US-10-180-550-298	Sequence 298, App
902	29	60.4	462	4	US-10-198-764-298	Sequence 298, App	975	29	60.4	462	4	US-10-183-014-298	Sequence 298, App
903	29	60.4	462	4	US-10-198-765-298	Sequence 298, App	976	29	60.4	462	4	US-10-187-738-298	Sequence 298, App

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977 29 60.4 462 4 US-10-187-740-238 Sequence 298, App
978 29 60.4 462 4 US-10-187-883-238 Sequence 298, App
979 29 60.4 462 4 US-10-194-363-238 Sequence 298, App
980 29 60.4 462 4 US-10-194-460-238 Sequence 298, App
981 29 60.4 462 4 US-10-194-463-238 Sequence 298, App
982 29 60.4 462 4 US-10-194-484-238 Sequence 298, App
983 29 60.4 462 4 US-10-195-884-238 Sequence 298, App
984 29 60.4 462 4 US-10-196-744-238 Sequence 298, App
985 29 60.4 462 4 US-10-196-755-238 Sequence 298, App
986 29 60.4 462 4 US-10-197-704-238 Sequence 298, App
987 29 60.4 462 4 US-10-197-710-238 Sequence 298, App
988 29 60.4 462 4 US-10-198-758-238 Sequence 298, App
989 29 60.4 462 4 US-10-198-766-238 Sequence 298, App
990 29 60.4 462 4 US-10-199-304-238 Sequence 298, App
991 29 60.4 462 4 US-10-199-309-238 Sequence 298, App
992 29 60.4 462 4 US-10-199-313-238 Sequence 298, App
993 29 60.4 462 4 US-10-199-456-238 Sequence 298, App
994 29 60.4 462 4 US-10-201-329-238 Sequence 298, App
995 29 60.4 462 4 US-10-202-413-238 Sequence 298, App
996 29 60.4 462 4 US-10-206-919-238 Sequence 298, App
997 29 60.4 462 4 US-10-206-922-238 Sequence 298, App
998 29 60.4 462 4 US-10-206-924-238 Sequence 298, App
999 29 60.4 462 4 US-10-206-928-238 Sequence 298, App
1000 29 60.4 462 4 US-10-207-914-238 Sequence 298, App
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ALIGNMENTS

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RESULT 1
US-09-891-823-4
; Sequence 4, Application US/09891823
; Publication No. US20020110566A1
; GENERAL INFORMATION:
; APPLICANT: Neefe, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/09/891,823
; CURRENT FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-09-891-823-4

Query Match          100.0%; Score 48; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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; CURRENT APPLICATION NUMBER: US/09/909,460
; CURRENT FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US/09/321,346
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-05-27
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 105
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-09-909-460-105

Query Match          100.0%; Score 48; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
RESULT 3
US-09-872-836-105
; Sequence 105, Application US/09872836
; Publication No. US20040142475A1
; GENERAL INFORMATION:
; APPLICANT: Barman, Shikha P.
; APPLICANT: McKeever, Una
; APPLICANT: Hedley, Mary Lynne
; TITLE OF INVENTION: DELIVERY SYSTEMS FOR BIOACTIVE AGENTS
; FILE REFERENCE: 08191-018001
; CURRENT APPLICATION NUMBER: US/09/872,836
; CURRENT FILING DATE: 2001-06-01
; PRIOR APPLICATION NUMBER: US 60/208,830
; PRIOR FILING DATE: 2000-06-02
; NUMBER OF SEQ ID NOS: 120
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 105
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-872-836-105

Query Match          100.0%; Score 48; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY 1 TLHEYMDDL 9
Db 1 TLHEYMDDL 9

RESULT 2
US-09-909-460-105
; Sequence 105, Application US/09909460
; Publication No. US20020182258A1
; GENERAL INFORMATION:
; APPLICANT: Luneford, Lynn B.
; APPLICANT: Putnam, David
; APPLICANT: Hedley, Mary Lynne
; TITLE OF INVENTION: MICROPARTICLES FOR DELIVERY OF NUCLEIC
; TITLE OF INVENTION: ACID
; FILE REFERENCE: 08191/014001
```

```
US-10-128-711-69
; Sequence 69, Application US/10128711
; Publication No. US20030099634A1
; GENERAL INFORMATION:
; APPLICANT: VITIELLO, Maria A.
; APPLICANT: CHESTNUT, Robert W.
; APPLICANT: SETTE, Alessandro D.
; APPLICANT: CELIS, Esteban
; APPLICANT: GRAY, Howard
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ELICITING
; TITLE OF INVENTION: CTL IMMUNITY
; NUMBER OF SEQUENCES: 153
; CORRESPONDENCE ADDRESS:
; ADDRESS: Townsend and Townsend Hourie and Crew
; STREET: Stewart Street Tower, One Market Plaza
; CITY: San Francisco
; STATE: California
; COUNTRY: US
; ZIP: 94105-1493
; COMPUTER READABLE FORM:
```

MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/128,711
FILING DATE: 22-Apr-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/197,484
FILING DATE: 16-FEB-1994
APPLICATION NUMBER: US 07/935,811
FILING DATE: 26-AUG-1992
APPLICATION NUMBER: US 07/874,491
FILING DATE: 27-APR-1992
APPLICATION NUMBER: US 07/827,682
FILING DATE: 29-JUN-1992
APPLICATION NUMBER: US 07/749,568
FILING DATE: 26-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: Parmelee, Steven W.
REGISTRATION NUMBER: 31,990
REFERENCE/DOCKET NUMBER: 14137-26-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 623-6793
TELEFAX: (206) 467-9600
INFORMATION FOR SEQ ID NO: 69:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 69:
US-10-128-711-69

Query Match 100.0%; Score 48; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLHEYMIDL 9
DB 1 TLHEYMIDL 9

RESULT 5
US-10-133-210-270
Sequence 270, Application US/10133210
Publication No. US20030103964A1
GENERAL INFORMATION:
APPLICANT: Delist, Charles
APPLICANT: Berzofsky, Jay
APPLICANT: Gulukota, Kamalakar
APPLICANT: Vaccaro, Dennis
APPLICANT: Weng, Zhiping
APPLICANT: Zhang, Chao
TITLE OF INVENTION: METHODS FOR DESIGNING MOLECULAR CONJUGATES AND
TITLE OF INVENTION: COMPOSITIONS THEREOF
FILE REFERENCE: BU-035X
CURRENT APPLICATION NUMBER: US/10/133,210
CURRENT FILING DATE: 2002-04-26
NUMBER OF SEQ ID NOS: 281
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 270
LENGTH: 9
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-133-210-270

Query Match 100.0%; Score 48; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLHEYMIDL 9
DB 1 TLHEYMIDL 9

RESULT 6
US-10-365-908-4
Sequence 4, Application US/10365908
Publication No. US20030170268A1
GENERAL INFORMATION:
APPLICANT: Neefe, John R.
APPLICANT: Boux, Leslie J.
APPLICANT: Winnett, Mark T.
APPLICANT: Goldstone, Stephen E.
APPLICANT: Siegel, Marvin
TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
FILE REFERENCE: 12071-003001
CURRENT APPLICATION NUMBER: US/10/365,908
CURRENT FILING DATE: 2003-02-13
PRIOR APPLICATION NUMBER: US/09/891,823
PRIOR FILING DATE: 2001-10-19
PRIOR APPLICATION NUMBER: US 60/214,202
PRIOR FILING DATE: 2000-06-26
NUMBER OF SEQ ID NOS: 140
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 4
LENGTH: 9
TYPE: PRT
ORGANISM: Human papilloma virus
US-10-365-908-4

Query Match 100.0%; Score 48; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLHEYMIDL 9
DB 1 TLHEYMIDL 9

RESULT 7
US-10-871-138-4
Sequence 4, Application US/10871138
Publication No. US20040235741A1
GENERAL INFORMATION:
APPLICANT: Neefe, John R.
APPLICANT: Boux, Leslie J.
APPLICANT: Winnett, Mark T.
APPLICANT: Goldstone, Stephen E.
APPLICANT: Siegel, Marvin
TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
FILE REFERENCE: 12071-003001
CURRENT APPLICATION NUMBER: US/10/871,138
CURRENT FILING DATE: 2004-06-18
PRIOR APPLICATION NUMBER: US/09/891,823
PRIOR FILING DATE: 2001-06-26
PRIOR APPLICATION NUMBER: US 60/214,202
PRIOR FILING DATE: 2000-06-26
NUMBER OF SEQ ID NOS: 140
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 4
LENGTH: 9
TYPE: PRT
ORGANISM: Human papilloma virus
US-10-871-138-4

Query Match 100.0%; Score 48; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLHEYMIDL 9

Db 1 TLHEYMDDL 9

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|||||
RESULT 8
US-10-758-970-105
; Sequence 105, Application US/10758970
; Publication No. US20050037086A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Heu, Yung-Yueh
; APPLICANT: Tyo, Michael
; TITLE OF INVENTION: CONTINUOUS-FLOW METHOD FOR PREPARING MICROPARTICLES
; FILE REFERENCE: 08191-012001
; CURRENT FILING DATE: 2004-01-16
; PRIOR FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: US/09/715,708A
; PRIOR FILING DATE: 1999-11-19
; NUMBER OF SEQ ID NOS: 109
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 105
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-10-758-970-105
```

Query Match 100.0%; Score 48; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLHEYMDDL 9

```
|||||
RESULT 9
US-10-751-845-59
; Sequence 59, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT FILING DATE: 2004-01-05
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 59
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-59
```

Query Match 100.0%; Score 48; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLHEYMDDL 9

Db 1 TLHEYMDDL 9

US-10-924-377-4

```
;; Sequence 4, Application US/10924377
; Publication No. US20050181458A1
; GENERAL INFORMATION:
; APPLICANT: Harding, Fiona
; APPLICANT: Mucha, Jeannette Marie
; TITLE OF INVENTION: HPV CD8+ T-Cell Epitopes
; FILE REFERENCE: GC811-205
; CURRENT APPLICATION NUMBER: US/10/924,377
; CURRENT FILING DATE: 2004-08-23
; PRIOR FILING DATE: 2003-09-05
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 9
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-924-377-4
```

Query Match 100.0%; Score 48; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLHEYMDDL 9

```
|||||
RESULT 11
US-09-891-823-49
; Sequence 49, Application US/09891823
; Publication No. US20020110566A1
; GENERAL INFORMATION:
; APPLICANT: Neefe, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
; FILE REFERENCE: 12071-003001
; CURRENT FILING DATE: 2001-10-19
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 49
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-09-891-823-49
```

Query Match 100.0%; Score 48; DB 3; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.026;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLHEYMDDL 9

Db 2 TLHEYMDDL 10

```
RESULT 12
US-10-365-908-49
; Sequence 49, Application US/10365908
; Publication No. US20030170268A1
; GENERAL INFORMATION:
; APPLICANT: Neefe, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
```

```
FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/10/365,908
; CURRENT FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US/09/891,823
; PRIOR FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 49
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-10-365-908-49

Query Match          100.0%; Score 48; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.026;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLHEYMIDL 9
   |||||
Db 2 TLHEYMIDL 10

RESULT 13
US-10-871-138-49
; Sequence 49, Application US/10871138
; Publication No. US20040235741A1
; GENERAL INFORMATION:
; APPLICANT: Neele, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/10/871,138
; CURRENT FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: US/09/891,823
; PRIOR FILING DATE: 2001-06-26
; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 49
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-10-871-138-49

Query Match          100.0%; Score 48; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.026;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLHEYMIDL 9
   |||||
Db 2 TLHEYMIDL 10

RESULT 14
US-10-648-547-69
; Sequence 69, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
```

```
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 69
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-69

Query Match          100.0%; Score 48; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.04;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLHEYMIDL 9
   |||||
Db 6 TLHEYMIDL 14

RESULT 15
US-10-648-547-92
; Sequence 92, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 92
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-92

Query Match          100.0%; Score 48; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.04;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLHEYMIDL 9
   |||||
Db 1 TLHEYMIDL 9

RESULT 16
US-10-476-570-45
; Sequence 45, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 45
```

```

; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E7 6-20
US-10-476-570-45
```

```
Query Match          100.0%; Score 48; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.04;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 TLHEYMULD 9
    |||||
Db 2 TLHEYMULD 10
```

```
RESULT 17
US-10-306-541-69
; Sequence 69, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/4
; CURRENT APPLICATION NUMBER: US/10/306,541
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 2001-11-23
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO: 69
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-306-541-69
```

```
Query Match          100.0%; Score 48; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.04;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 TLHEYMULD 9
    |||||
Db 6 TLHEYMULD 14
```

```
RESULT 18
US-10-306-541-92
; Sequence 92, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/4
; CURRENT APPLICATION NUMBER: US/10/306,541
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 2001-11-23
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO: 92
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-306-541-92
```

```
Query Match          100.0%; Score 48; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.04;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Db 1 TLHEYMULD 9
```

```
RESULT 19
US-10-751-845-67
; Sequence 67, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 67
; LENGTH: 19
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-67
```

```
Query Match          100.0%; Score 48; DB 5; Length 19;
Best Local Similarity 100.0%; Pred. No. 0.051;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 TLHEYMULD 9
    |||||
Db 1 TLHEYMULD 9
```

```
RESULT 20
US-10-432-465-44
; Sequence 44, Application US/10432465
; Publication No. US20040091479A1
; GENERAL INFORMATION:
; APPLICANT: Nieland, John
; APPLICANT: Kaufmann, Andreas
; APPLICANT: Kather, Angela
; APPLICANT: Schinz, Manuela
; TITLE OF INVENTION: T-Cell Epitopes of the Papillomavirus L1
; TITLE OF INVENTION: Protein and E7 Protein and Their Use in Diagnosis and
; FILE REFERENCE: 50125/077001
; CURRENT APPLICATION NUMBER: US/10/432,465
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: PCT/EP01/14037
; PRIOR FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: DE 10059631.2
; PRIOR FILING DATE: 2000-12-01
; NUMBER OF SEQ ID NOS: 116
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 44
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-432-465-44
```

```
Query Match          100.0%; Score 48; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.054;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 TLHEYMULD 9
    |||||
Db 7 TLHEYMULD 15
```

RESULT 21
US-10-476-570-14
; Sequence 14, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from B6 and/or E7
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; PRIOR FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 20
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E7 1-20
US-10-476-570-14

Query Match 100.0%; Score 48; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.054;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLHEWMDL 9
Db 7 TLHEWMDL 15

RESULT 22
US-10-890-526-69
; Sequence 69, Application US/10890526
; Publication No. US20040258708A1
; GENERAL INFORMATION:
; APPLICANT: Jochims, Ingrid
; APPLICANT: Nieland, John
; TITLE OF INVENTION: Cytotoxic T-Cell Epitopes of the
; TITLE OF INVENTION: Papilloma Virus L1-Protein and Use Thereof in Diagnosis and
; FILE REFERENCE: 50125/036001
; CURRENT APPLICATION NUMBER: US/10/890,526
; PRIOR FILING DATE: 2004-07-13
; PRIOR APPLICATION NUMBER: US/09/980,177
; PRIOR FILING DATE: 2002-05-02
; PRIOR APPLICATION NUMBER: PCT/EP00/05006
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: DE 19925199.1
; PRIOR FILING DATE: 1999-06-01
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: FaastSeq for Windows Version 4.0
; SEQ ID NO 69
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-890-526-69

Query Match 100.0%; Score 48; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.054;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLHEWMDL 9
Db 7 TLHEWMDL 15

Db 7 TLHEWMDL 15

RESULT 23
US-10-476-570-15
; Sequence 15, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from B6 and/or E7
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; PRIOR FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 15
; LENGTH: 21
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E7 7-27
US-10-476-570-15

Query Match 100.0%; Score 48; DB 4; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.056;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLHEWMDL 9
Db 1 TLHEWMDL 9

RESULT 24
US-10-476-570-57
; Sequence 57, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from B6 and/or E7
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; PRIOR FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 57
; LENGTH: 23
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E7 3-25
US-10-476-570-57

Query Match 100.0%; Score 48; DB 4; Length 23;

Best Local Similarity 100.0%; Pred. No. 0.062;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLHEYMDDL 9
|||||
Db 5 TLHEYMDDL 13

RESULT 25

US-10-858-384-14
; Sequence 14, Application US/10858384
; Publication No. US2005003025A1
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILAD, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCES
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
; PRIOR FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 14
; LENGTH: 23
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of the Artificial Sequence: Peptide fragment
; OTHER INFORMATION: for E7 of HPV
US-10-858-384-14

Query Match 100.0%; Score 48; DB 5; Length 23;
Best Local Similarity 100.0%; Pred. No. 0.062;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLHEYMDDL 9
|||||
Db 5 TLHEYMDDL 13

RESULT 26

US-09-828-645-3
; Sequence 3, Application US/09828645
; Publication No. US20030027750A1
; GENERAL INFORMATION:
; APPLICANT: Hu, Yao Xiong
; TITLE OF INVENTION: Immunological Methodology for Discerning Human Papillomavirus
; FILE REFERENCE: 146-1-002
; CURRENT APPLICATION NUMBER: US/09/828,645
; CURRENT FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: US 60/194,796
; PRIOR FILING DATE: 2000-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 30
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from the E7 early region of HPV-16
US-09-828-645-3

Query Match 100.0%; Score 48; DB 3; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.081;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLHEYMDDL 9

Db 2 TLHEYMDDL 10
|||||

RESULT 27
US-09-828-645-7
; Sequence 7, Application US/09828645
; Publication No. US20030027750A1
; GENERAL INFORMATION:
; APPLICANT: Hu, Yao Xiong
; TITLE OF INVENTION: Immunological Methodology for Discerning Human Papillomavirus
; FILE REFERENCE: 146-1-002
; CURRENT APPLICATION NUMBER: US/09/828,645
; CURRENT FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: US 60/194,796
; PRIOR FILING DATE: 2000-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 30
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from the E7 early region of HPV-16
; NAME/KEY: misc feature
; LOCATION: (19)-(19)
; OTHER INFORMATION: Xaa = L-carboxymethylcysteine
US-09-828-645-7

Query Match 100.0%; Score 48; DB 3; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.081;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLHEYMDDL 9
|||||
Db 2 TLHEYMDDL 10

RESULT 28
US-10-827-007-3
; Sequence 3, Application US/10827007
; Publication No. US20050042599A1
; GENERAL INFORMATION:
; APPLICANT: Impact Diagnostics
; APPLICANT: Hu, Yao Xiong
; TITLE OF INVENTION: Immunological Methodology for Discerning Human Papillomavirus
; TITLE OF INVENTION: Contemplating Peptides from the E7 Early Coding Region of HPV 16
; FILE REFERENCE: 3352-2-1-3
; CURRENT APPLICATION NUMBER: US/10/827,007
; CURRENT FILING DATE: 2004-04-19
; PRIOR APPLICATION NUMBER: US 09/828,645
; PRIOR FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: US 60/194,796
; PRIOR FILING DATE: 2000-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3
; LENGTH: 30
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Derived from the E7 early coding region of HPV-16
US-10-827-007-3

Query Match 100.0%; Score 48; DB 5; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.081;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLHEYMDDL 9
|||||
Db 2 TLHEYMDDL 10

RESULT 29
US-10-827-007-7
; Sequence 7, Application US/10827007
; Publication No. US20050042599A1
; GENERAL INFORMATION:
; APPLICANT: Impact Diagnostics
; APPLICANT: Hu, Yao Xiong
; TITLE OF INVENTION: Immunological Methodology for Discerning Human Papillomavirus
; TITLE OF INVENTION: Contemplating Peptides From the E7 Early Coding Region of HPV 16
; FILE REFERENCE: 3352-2-1-3
; CURRENT APPLICATION NUMBER: US/10/827,007
; CURRENT FILING DATE: 2004-04-19
; PRIOR APPLICATION NUMBER: US 09/828,645
; PRIOR FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: US 60/194,796
; PRIOR FILING DATE: 2000-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 7
; LENGTH: 30
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Derived from the E7 early coding region of HPV-16
; NAME/KEY: MISC_FEATURE
; LOCATION: (19)..(19)
; OTHER INFORMATION: Xaa = L-Carboxymethylcysteine
US-10-827-007-7

Query Match 100.0%; Score 48; DB 5; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.081;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TLHEYMDDL 9
Db 2 TLHEYMDDL 10

RESULT 30
US-10-827-083-3
; Sequence 3, Application US/10827083
; Publication No. US20050042600A1
; GENERAL INFORMATION:
; APPLICANT: Impact Diagnostics
; APPLICANT: Hu, Yao Xiong
; TITLE OF INVENTION: Immunological Methodology for Discerning Human Papillomavirus
; TITLE OF INVENTION: Contemplating Peptides From the E7 Early Coding Region of HPV 16
; FILE REFERENCE: 3352-2-1-4
; CURRENT APPLICATION NUMBER: US/10/827,083
; CURRENT FILING DATE: 2004-04-19
; PRIOR APPLICATION NUMBER: US 09/828,645
; PRIOR FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: US 60/194,796
; PRIOR FILING DATE: 2000-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 3
; LENGTH: 30
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Derived from the E7 early coding region of HPV-16
US-10-827-083-3

Query Match 100.0%; Score 48; DB 5; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.081;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TLHEYMDDL 9
Db 2 TLHEYMDDL 10

RESULT 31
US-10-827-083-7
; Sequence 7, Application US/10827083
; Publication No. US20050042600A1
; GENERAL INFORMATION:
; APPLICANT: Impact Diagnostics
; APPLICANT: Hu, Yao Xiong
; TITLE OF INVENTION: Immunological Methodology for Discerning Human Papillomavirus
; TITLE OF INVENTION: Contemplating Peptides From the E7 Early Coding Region of HPV 16
; FILE REFERENCE: 3352-2-1-4
; CURRENT APPLICATION NUMBER: US/10/827,083
; CURRENT FILING DATE: 2004-04-19
; PRIOR APPLICATION NUMBER: US 09/828,645
; PRIOR FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: US 60/194,796
; PRIOR FILING DATE: 2000-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 7
; LENGTH: 30
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Derived from the E7 early coding region of HPV-16
; NAME/KEY: MISC_FEATURE
; LOCATION: (19)..(19)
; OTHER INFORMATION: Xaa = L-Carboxymethylcysteine
US-10-827-083-7

Query Match 100.0%; Score 48; DB 5; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.081;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TLHEYMDDL 9
Db 2 TLHEYMDDL 10

RESULT 32
US-09-728-466-1
; Sequence 1, Application US/09728466
; Patent No. US20010029022A1
; GENERAL INFORMATION:
; APPLICANT: Fisher, Christopher
; APPLICANT: He, Manxia
; TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
; FILE REFERENCE: 28341/6216
; CURRENT APPLICATION NUMBER: US/09/728,466
; CURRENT FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: 09/382,616
; PRIOR FILING DATE: 1999-08-25
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Papillomavirus sylvilagi
US-09-728-466-1

Query Match 100.0%; Score 48; DB 3; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLHEYMDDL 9
Db 7 TLHEYMDDL 15

RESULT 33
US-09-820-765-4
; Sequence 4, Application US/09820765

Publication No. US20020039584A1
GENERAL INFORMATION:
APPLICANT: BURGER, Alexander
HALLEK, Michael
TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
FORMULATIONS AND METHODS OF USE
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/820,765
FILING DATE: 30-Mar-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/026,896
FILING DATE: 20-FEB-1998
ATTORNEY/AGENT INFORMATION:
NAME: Sandercock, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-820-765-4
Query Match 100.0%; Score 48; DB 3; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.27; 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TLHEYMIDL 9
Db 7 TLHEYMIDL 15
RESULT 34
US-09-824-017-4
Sequence 4, Application US/09824017
Publication No. US2002019768A1
GENERAL INFORMATION:
APPLICANT: BURGER, Alexander
HALLEK, Michael
TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
FORMULATIONS AND METHODS OF USE
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/824,017
FILING DATE: 03-Apr-2001
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/026,896
FILING DATE: 1998-02-20
ATTORNEY/AGENT INFORMATION:
NAME: Sandercock, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-824-017-4
Query Match 100.0%; Score 48; DB 3; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.27; 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TLHEYMIDL 9
Db 7 TLHEYMIDL 15

RESULT 35
US-09-986-118A-4
Sequence 4, Application US/09986118A
Publication No. US20030021806A1
GENERAL INFORMATION:
APPLICANT: BURGER, Alexander
HALLEK, Michael
TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
FORMULATIONS AND METHODS OF USE
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/986,118A
FILING DATE: 07-No. US20030021806A1-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/026,896
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Sandercock, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear

```

;      MOLECULE TYPE: protein
;      SEQUENCE DESCRIPTION: SEQ ID NO: 4 :
US-09-986-118A-4

```

Query Match	100.0%;	Score 48;	DB 3;	Length 98;
Best Local Similarity	100.0%;	Pred. No. 0.27;		
Matches 9, Conservative	0;	Mismatches	0;	Indels 0; Gaps 0.

QY	1 TLHEYMLDL 9
DB	7 TLHEYMLDL 15

```

RESULT 36
US-10-267-311-8
; Sequence 8, Application US/10267311
; Publication No. US20030050469A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/267,311
; CURRENT FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 98
; TYPE: PR1
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-267-311-8

```

Query Match	100.0%	Score 48;	DB 4;	Length 98;
Best Local	Similarity	100.0%;	Pred. 0.27;	
Matches	9;	Conservative	0;	Mismatches 0; Indels 0; Gaps 0

QY	1	TLHEYMLDL	9
Db	7	TLHEYMLDL	15

```

RESULT 37
US-10-177-390-8
; Sequence 8, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
; APPLICANT: N.V. Autberps Innovatiecentrum
; APPLICANT: Schuller, Gerold
; TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with Linear
; FILE REFERENCE: 021505wo/0H/ml
; CURRENT APPLICATION NUMBER: US/10/177.390
; CURRENT FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 98
; TYPE: PR1
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: fragment of
; OTHER INFORMATION: human papilloma virus type 16 E7 gene
US-10-177-390-8

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Query Match	100.0%;	Score 48;	DB 4;	Length 98;
Best Local Similarity	100.0%;	Pred. No. 0.27;		

Matches	9;	Conservative	0;	Mismatches	0;	Indels	0;	Gaps	0;
---------	----	--------------	----	------------	----	--------	----	------	----

QY	1	TLHEYM L D L	9
Db	7	TLHEYM L D L	15

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RESULT 38 /764-19
; US-10-201-764-19
; Sequence 19, Application US/10201764
; Publication No. US20030166140A1
; GENERAL INFORMATION:
; APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
; TITLE OF INVENTION: IMMUNE RESPONSE
; FILE REFERENCE: TBA
; CURRENT APPLICATION NUMBER: US/10/201,764
; CURRENT FILING DATE: 2002-07-22
; PRIOR APPLICATION NUMBER: US/09/566,420
; PRIOR FILING DATE: 2000-05-05
; PRIOR APPLICATION NUMBER: 60/133,752
; PRIOR FILING DATE: 1999-05-06
; PRIOR APPLICATION NUMBER: 60/133,750
; PRIOR FILING DATE: 1999-05-06
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
; LENGTH: 98
; TYPE: PRN
; ORGANISM: Human papillomavirus type E7
; US-10-201-764-19

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Query Match	100.0%	Score 48;	DB 4;	Length 98;
Best Local Similarity	100.0%	Pred. No. 0.27;		
Matches	9;	Conservative	0;	Mismatches 0; Indels 0; Gaps 0;

QY	1 TLHEYM L D L 9
Db	7 TLHEYM L D L 15

```

RESULT 39
US-10-392-113-29
; Sequence 29, Application US/10392113
; Publication No. US20030224993A1
; GENERAL INFORMATION:
; APPLICANT: Land, Hartmut
; APPLICANT: Deleu, Laurent
; TITLE OF INVENTION: COMPOSITIONS THAT INHIBIT PROLIFERATION
; TITLE OF INVENTION: OF CANCER CELLS
; FILE REFERENCE: 21108_000503
; CURRENT APPLICATION NUMBER: US/10/392,113
; CURRENT FILING DATE: 2003-03-17
; PRIOR APPLICATION NUMBER: 60/365,078
; PRIOR FILING DATE: 2002-03-15
; PRIOR APPLICATION NUMBER: PCT/US01/32127
; PRIOR FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 60/239,705
; PRIOR FILING DATE: 2000-10-12
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FaetsEq for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:/Note =
US-10-392-113-29

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Query Match	100.0%;	Score 48;	DB 4;	Length 98;
Best Local Similarity	100.0%;	Pred. No. 0.27;		
Matches	9;	Conservative	0;	Mismatches 0;
				Indels 0;
				Gaps 0;

OY 1 TLHEYMIDL 9
| | | | |
DB 7 TLHEYMIDL 15

RESULT 40

US-10-654-129-4
; Sequence 4, Application US/10654129
; Publication No. US2004008161A1
; GENERAL INFORMATION:
; APPLICANT: BURGER, Alexander
; HALLER, Michael
; TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
; FORMULATIONS AND METHODS OF USE
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY & LARDNER
; STREET: 3000 K Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/654,129
; FILING DATE: 04-Sep-2003
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/824,017
; FILING DATE: 03-Apr-2001
; APPLICATION NUMBER: 09/026,896
; FILING DATE: 1998-02-20
; ATTORNEY/AGENT INFORMATION:
; NAME: Sandercock, Colin G.
; REGISTRATION NUMBER: 31,298
; REFERENCE/DOCKET NUMBER: 37067/102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 672-5300
; TELEFAX: (202) 672-5399
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:

US-10-654-129-4

Query Match 100.0%; Score 48; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.27; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 TLHEYMIDL 9
| | | | |
DB 7 TLHEYMIDL 15

RESULT 41

US-10-681-410-19
; Sequence 19, Application US/10681410
; Publication No. US20040096426A1
; GENERAL INFORMATION:
; APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
; IMMUNE RESPONSE
; FILE REFERENCE: TBA
; CURRENT APPLICATION NUMBER: US/10/681,410
; CURRENT FILING DATE: 2003-10-08

US-10-681-410-19

; PRIOR APPLICATION NUMBER: US/10/201,764
; PRIOR FILING DATE: 2002-07-22
; PRIOR APPLICATION NUMBER: US/09/566,420
; PRIOR FILING DATE: 2000-05-05
; PRIOR APPLICATION NUMBER: 60/132,752
; PRIOR FILING DATE: 1999-05-06
; PRIOR APPLICATION NUMBER: 60/132,750
; PRIOR FILING DATE: 1999-05-06
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type E7
; US-10-681-410-19

Query Match 100.0%; Score 48; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.27; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 TLHEYMIDL 9
| | | | |
DB 7 TLHEYMIDL 15

RESULT 42

US-10-772-988-3
; Sequence 3, Application US/10772988
; Publication No. US20040139485A1
; GENERAL INFORMATION:
; APPLICANT: Thorgelsson, Snorri S.
; APPLICANT: Wolbach, Joseph T.
; APPLICANT: Zhang, Minghuang
; TITLE OF INVENTION: CDNA ENCODING A GENE BOG (BST OVER-EXPRESSED GENE) AND ITS PROTEI
; PRODUCT
; FILE REFERENCE: 11613.29USW1
; CURRENT APPLICATION NUMBER: US/10/772,988
; CURRENT FILING DATE: 2004-02-05
; PRIOR APPLICATION NUMBER: US/09/637,746
; PRIOR FILING DATE: 2000-08-11
; PRIOR APPLICATION NUMBER: PCT/US99/04142
; PRIOR FILING DATE: 1999-02-25
; PRIOR APPLICATION NUMBER: US 60/079,567
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: US 60/075,922
; PRIOR FILING DATE: 1998-02-25
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus
; US-10-772-988-3

US-10-772-988-3

Query Match 100.0%; Score 48; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.27; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 TLHEYMIDL 9
| | | | |
DB 7 TLHEYMIDL 15

RESULT 43

US-10-479-541-5
; Sequence 5, Application US/10479541
; Publication No. US20040151723A1
; GENERAL INFORMATION:
; APPLICANT: Kirin Beer Kabushiki Kaisha
; TITLE OF INVENTION: Novel E7 antigen epitope from human papillomavirus and
; CD4+ T cells activated thereby
; FILE REFERENCE: 137240PX
; CURRENT APPLICATION NUMBER: US/10/479,541

US-10-479-541-5

```
/ CURRENT FILING DATE: 2003-12-04
/ PRIOR APPLICATION NUMBER: 173803/2001
/ PRIOR FILING DATE: 2001-06-08
/ NUMBER OF SEQ ID NOS: 5
/ SOFTWARE: Patentln Ver. 2.1
/ SEQ ID NO 5
/ LENGTH: 98
/ TYPE: PRF
/ ORGANISM: Human papillomavirus type 16
US-10-479-541-5
```

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Query Match          100.0%; Score 48; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY 1 TLHEYMIDL 9
Db 7 TLHEYMIDL 15
```

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RESULT 44
US-10-042-526A-4
/ Sequence 4, Application US/10042526A
/ Publication No. US20050031636A1
/ GENERAL INFORMATION:
/ APPLICANT: GISSMANN, et al.
/ TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE FORMULATIONS AND METHODS OF USE
/ FILE REFERENCE: 27013/38150
/ CURRENT APPLICATION NUMBER: US/10/042,526A
/ CURRENT FILING DATE: 2002-04-29
/ PRIOR APPLICATION NUMBER: US 09/632,286
/ PRIOR FILING DATE: 2000-08-03
/ PRIOR APPLICATION NUMBER: US 08/944,368
/ PRIOR FILING DATE: 1997-10-06
/ NUMBER OF SEQ ID NOS: 28
/ SOFTWARE: Patentln version 3.3
/ SEQ ID NO 4
/ LENGTH: 98
/ TYPE: PRF
/ ORGANISM: Human Papilloma Virus
US-10-042-526A-4
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Query Match          100.0%; Score 48; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY 1 TLHEYMIDL 9
Db 7 TLHEYMIDL 15
```

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RESULT 45
US-10-657-399-1
/ Sequence 1, Application US/10657399
/ Publication No. US20050032038A1
/ GENERAL INFORMATION:
/ APPLICANT: Fisher, Christopher
/ APPLICANT: He, Xiaoxia
/ TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
/ FILE REFERENCE: 28341/6216
/ CURRENT APPLICATION NUMBER: US/10/657,399
/ CURRENT FILING DATE: 2003-09-08
/ PRIOR APPLICATION NUMBER: US/09/728,466
/ PRIOR FILING DATE: 2000-12-01
/ PRIOR APPLICATION NUMBER: 09/382,616
/ PRIOR FILING DATE: 1999-08-25
/ NUMBER OF SEQ ID NOS: 43
/ SOFTWARE: Patentln Ver. 2.0
/ SEQ ID NO 1
/ LENGTH: 98
/ TYPE: PRF
/ ORGANISM: Papillomavirus bY1v1ag1
US-10-657-399-1
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Query Match          100.0%; Score 48; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY 1 TLHEYMIDL 9
Db 7 TLHEYMIDL 15
```

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RESULT 46
US-10-858-384-12
/ Sequence 12, Application US/10858384
/ Publication No. US20050033025A1
/ GENERAL INFORMATION:
/ APPLICANT: CHOPPIN, JEANNINE
/ APPLICANT: BOURGAULT VILLADA, ISABELLE
/ APPLICANT: GUILLET, JEAN-GERARD
/ APPLICANT: CONNAN, FRANCES
/ APPLICANT: FERRIES, ESTELLE
/ TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
/ TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
/ FILE REFERENCE: 0508-1037-1
/ CURRENT APPLICATION NUMBER: US/10/858,384
/ CURRENT FILING DATE: 2004-06-02
/ PRIOR APPLICATION NUMBER: FR 9907012
/ PRIOR FILING DATE: 1999-06-03
/ NUMBER OF SEQ ID NOS: 24
/ SOFTWARE: Patentln Ver. 3.2
/ SEQ ID NO 12
/ LENGTH: 98
/ TYPE: PRF
/ ORGANISM: Human Papillomavirus
US-10-858-384-12
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Query Match          100.0%; Score 48; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 TLHEYMIDL 9
Db 7 TLHEYMIDL 15
```

```
RESULT 47
US-10-484-063-26
/ Sequence 26, Application US/10484063
/ Publication No. US20050048467A1
/ GENERAL INFORMATION:
/ APPLICANT: SASTRY, K. JAGANNADHA
/ APPLICANT: TORTOLERO-LUNA, GUILTERMO
/ APPLICANT: FOLLEN, MICHELE
/ TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
/ TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
/ FILE REFERENCE: UTSC:560US
/ CURRENT APPLICATION NUMBER: US/10/484,063
/ CURRENT FILING DATE: 2004-01-16
/ PRIOR APPLICATION NUMBER: PCT/US02/23198
/ PRIOR FILING DATE: 2002-07-19
/ PRIOR APPLICATION NUMBER: 60/306,809
/ PRIOR FILING DATE: 2001-07-20
/ NUMBER OF SEQ ID NOS: 27
/ SOFTWARE: Patentln Ver. 2.1
/ SEQ ID NO 26
/ LENGTH: 98
/ TYPE: PRF
/ ORGANISM: Human papillomavirus type 16
US-10-484-063-26
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Query Match          100.0%; Score 48; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 TLHEYMDDL 9
|||||
Db 7 TLHEYMDDL 15

RESULT 48
US-10-343-448-5
; Sequence 5, Application US/10343448
; Publication No. US20050054820A1
; GENERAL INFORMATION:
; APPLICANT: WU, Tzyy-Chou
; APPLICANT: HUNG, Chien-Fu
; TITLE OF INVENTION: MOLECULAR VACCINE LINKING AN ENDOPLASMIC RETICULUM CHAPERONE
; FILE REFERENCE: 2240-186463
; CURRENT APPLICATION NUMBER: US/10/343,448
; PRIOR FILING DATE: 2003-01-31
; PRIOR APPLICATION NUMBER: PCT/US01/24134
; PRIOR FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: US 60/222,902
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-343-448-5

Query Match 100.0%; Score 48; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLHEYMDDL 9
|||||
Db 7 TLHEYMDDL 15

RESULT 49
US-10-679-956-8
; Sequence 8, Application US/10679956
; Publication No. US20050089841A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/679,956
; PRIOR FILING DATE: 2003-10-06
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-679-956-8

Query Match 100.0%; Score 48; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLHEYMDDL 9
|||||
Db 7 TLHEYMDDL 15

RESULT 50
US-10-367-057-17
; Sequence 17, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
; APPLICANT: Cuthill, Scott;
; APPLICANT: Jackson, Amanda;
; APPLICANT: Lewin, David A.;
; APPLICANT: Ooi, Chean Eng
; TITLE OF INVENTION: Complexes and Methods of Using Same
; FILE REFERENCE: 21402-559
; CURRENT APPLICATION NUMBER: US/10/367,057
; PRIOR FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: 60/256,911
; PRIOR FILING DATE: 2002-02-14
; NUMBER OF SEQ ID NOS: 198
; SOFTWARE: Curaseqlist version 0.1
; SEQ ID NO 17
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-367-057-17

Query Match 100.0%; Score 48; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLHEYMDDL 9
|||||
Db 7 TLHEYMDDL 15

Search completed: May 5, 2006, 08:06:31
Job time : 63 secs

GenCore version 5.1.7
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OM protein - protein search, using SW model

Run on: May 5, 2006, 07:56:56 ; Search time 8.4 Seconds
(without alignments)
49.591 Million cell updates/sec

Title: US-08-170-344-13
Perfect score: 48
Sequence: 1 TLHEXYMLDL 9

Scoring table:

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Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 100 summaries

Database :

Published Applications_Aa.New:*
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3: /SIDS5/ptodata/1/pubppaa/US07_NEW_PUB.pep:*
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12: /SIDS5/ptodata/1/pubppaa/US16_NEW_PUB.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	48	100.0	98	US-10-511-814-8	Sequence 8, Appl1
2	48	100.0	98	US-10-511-814-11	Sequence 11, Appl1
3	48	100.0	98	US-10-530-253-14	Sequence 14, Appl1
4	48	100.0	98	US-11-179-478-4	Sequence 4, Appl1
5	48	100.0	248	US-10-530-253-1	Sequence 1, Appl1
6	48	100.0	248	US-10-530-253-2	Sequence 2, Appl1
7	48	100.0	248	US-10-530-253-5	Sequence 5, Appl1
8	48	100.0	248	US-10-530-253-7	Sequence 7, Appl1
9	48	100.0	248	US-10-530-253-9	Sequence 9, Appl1
10	48	100.0	248	US-10-530-253-11	Sequence 11, Appl1
11	48	100.0	256	US-11-192-923A-2	Sequence 2, Appl1
12	39	81.2	15	US-10-530-061-1711	Sequence 1711, Ap
13	36	75.0	98	US-10-530-253-36	Sequence 36, Appl1
14	35	72.9	11	US-10-530-061-133	Sequence 133, App
15	35	72.9	11	US-10-530-061-145	Sequence 145, Appl1
16	35	72.9	97	US-10-530-253-29	Sequence 29, Appl1
17	35	72.9	501	US-10-496-399-3	Sequence 3, Appl1
18	35	72.9	501	US-11-191-072-2	Sequence 2, Appl1
19	34	70.8	1032	US-10-392-234A-67	Sequence 67, Appl1
20	34	70.8	1191	US-11-139-435-2	Sequence 2, Appl1
21	34	70.8	1193	US-11-139-435-3	Sequence 3, Appl1

22	33	68.8	98	US-10-530-253-28	Sequence 28, Appl1
23	33	68.8	99	US-10-530-253-30	Sequence 30, Appl1
24	33	68.8	317	US-11-096-568A-25429	Sequence 25429, A
25	33	68.8	329	US-11-096-568A-25428	Sequence 25428, A
26	33	68.8	338	US-11-096-568A-25427	Sequence 25427, A
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28	33	68.8	518	US-11-188-298-5115	Sequence 5115, Ap
29	33	68.8	1721	US-10-506-454-1532	Sequence 1532, Ap
30	32	66.7	181	US-11-096-568A-25375	Sequence 25375, A
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35	32	66.7	391	US-11-188-298-8306	Sequence 8306, Ap
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42	32	66.7	765	US-11-087-099-2704	Sequence 2704, Ap
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61	31	64.6	162	US-11-096-568A-13892	Sequence 13892, A
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68	31	64.6	315	US-11-096-568A-30707	Sequence 30707, A
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72	31	64.6	334	US-11-096-568A-14449	Sequence 14449, A
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74	31	64.6	344	US-11-008-570-44	Sequence 44, Appl1
75	31	64.6	345	US-11-096-568A-34448	Sequence 34448, A
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84	30	62.5	69	US-11-079-463-5332	Sequence 5332, Ap
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98	30	62.5	220	11	US-11-096-568A-19044	Sequence 19044, A	191	29	60.4	462	9	US-10-129-883-298	Sequence 298, App
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143	29	60.4	299	11	US-11-096-568A-16632	Sequence 16632, A	236	28	58.3	236	11	US-11-188-298-1845	Sequence 1845, App
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243	28	58.3	294	11	US-11-096-568A-23092	Sequence 23092, A	316	28	58.3	987	11	US-10-770-726-61	Sequence 61, Appl
244	28	58.3	294	11	US-11-188-298-2562	Sequence 2562, Ap	317	28	58.3	987	11	US-11-203-251A-87	Sequence 87, Appl
245	28	58.3	294	11	US-11-188-298-5119	Sequence 5119, Ap	318	28	58.3	990	9	US-10-506-454-1671	Sequence 1671, Ap
246	28	58.3	294	11	US-11-188-298-13478	Sequence 13478, A	319	28	58.3	995	11	US-11-113-424-62	Sequence 62, Appl
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255	28	58.3	321	9	US-10-793-626-2816	Sequence 2816, Ap	328	28	58.3	1055	11	US-11-203-251A-86	Sequence 86, Appl
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270	28	58.3	380	11	US-11-188-298-1561	Sequence 1561, Ap	343	28	58.3	1055	11	US-11-129-741-388	Sequence 388, App
271	28	58.3	391	11	US-11-188-298-4602	Sequence 4602, Ap	344	28	58.3	1055	11	US-11-129-741-388	Sequence 388, App
272	28	58.3	404	11	US-11-096-568A-12273	Sequence 12273, A	345	28	58.3	1055	11	US-11-124-367A-401	Sequence 401, App
273	28	58.3	407	11	US-11-096-568A-17703	Sequence 17703, A	346	28	58.3	1055	11	US-11-124-367A-403	Sequence 403, App
274	28	58.3	411	11	US-11-096-568A-12272	Sequence 12272, A	347	28	58.3	1055	11	US-11-124-367A-406	Sequence 406, App
275	28	58.3	416	11	US-11-146-428-114	Sequence 114, App	348	28	58.3	1055	11	US-11-124-367A-404	Sequence 404, App
276	28	58.3	424	11	US-11-096-568A-2554	Sequence 2554, Ap	349	28	58.3	1055	11	US-11-124-367A-405	Sequence 405, App
277	28	58.3	429	11	US-11-047-383-12	Sequence 12, Appl	350	28	58.3	1055	11	US-11-124-367A-407	Sequence 407, App
278	28	58.3	447	9	US-10-858-730-220	Sequence 220, App	351	28	58.3	1055	11	US-11-124-367A-408	Sequence 408, App
279	28	58.3	447	11	US-11-096-568A-12271	Sequence 12271, A	352	28	58.3	1055	11	US-11-124-367A-408	Sequence 408, App
280	28	58.3	447	11	US-11-265-288-10	Sequence 10, Appl	353	28	58.3	1055	11	US-10-895-064-388	Sequence 388, App
281	28	58.3	451	8	US-10-505-928-509	Sequence 509, App	354	28	58.3	1055	11	US-10-895-064-388	Sequence 388, App
282	28	58.3	459	11	US-11-096-568A-6023	Sequence 6023, Ap	355	28	58.3	1055	11	US-11-129-741-3318	Sequence 3318, Ap
283	28	58.3	460	11	US-11-096-568A-2553	Sequence 2553, Ap	356	28	58.3	1055	11	US-11-129-741-3318	Sequence 3318, Ap
284	28	58.3	464	11	US-11-096-568A-6022	Sequence 6022, Ap	357	28	58.3	1055	11	US-11-129-741-3318	Sequence 3318, Ap
285	28	58.3	468	11	US-11-096-568A-6021	Sequence 6021, Ap	358	28	58.3	1055	11	US-11-129-741-3318	Sequence 3318, Ap
286	28	58.3	476	11	US-11-087-099-4984	Sequence 4984, Ap	359	28	58.3	1055	11	US-11-129-741-3318	Sequence 3318, Ap
287	28	58.3	476	11	US-11-087-099-6024	Sequence 6024, Ap	360	28	58.3	1055	11	US-11-129-741-3318	Sequence 3318, Ap
288	28	58.3	486	11	US-11-096-568A-2552	Sequence 2552, Ap	361	28	58.3	1055	11	US-11-129-741-3318	Sequence 3318, Ap
289	28	58.3	505	11	US-11-087-099-6445	Sequence 6445, Ap	362	28	58.3	1055	11	US-11-129-741-3318	Sequence 3318, Ap
290	28	58.3	507	9	US-10-226-486-57	Sequence 57, Appl	363	28	58.3	1055	11	US-11-129-741-3318	Sequence 3318, Ap
291	28	58.3	520	11	US-11-188-298-12521	Sequence 12521, A	364	28	58.3	1055	11	US-11-129-741-3318	Sequence 3318, Ap
292	28	58.3	521	11	US-11-188-298-11698	Sequence 11698, A	365	28	58.3	1055	11	US-11-129-741-3318	Sequence 3318, Ap
293	28	58.3	523	11	US-11-087-099-11876	Sequence 11876, A	366	28	58.3	1055	11	US-11-129-741-3318	Sequence 3318, Ap
294	28	58.3	527	11	US-11-240-341-44	Sequence 44, Appl	367	28	58.3	1055	11	US-11-129-741-3318	Sequence 3318, Ap
295	28	58.3	575	11	US-11-188-298-10084	Sequence 10084, A	368	28	58.3	1055	11	US-11-129-741-3318	Sequence 3318, Ap
296	28	58.3	623	11	US-11-188-298-15367	Sequence 15367, A	369	28	58.3	1055	11	US-11-129-741-3318	Sequence 3318, Ap
297	28	58.3	692	8	US-10-509-131-32	Sequence 32, Appl	370	28	58.3	1055	11	US-11-129-741-3318	Sequence 3318, Ap
298	28	58.3	725	11	US-11-188-298-8443	Sequence 8443, Ap	371	28	58.3	1055	11	US-11-129-741-3318	Sequence 3318, Ap
299	28	58.3	745	11	US-11-188-298-5540	Sequence 5540, Ap	372	28	58.3	1055	11	US-11-129-741-3318	Sequence 3318, Ap
300	28	58.3	802	9	US-10-194-487-512	Sequence 312, App	373	28	58.3	1055	11	US-11-129-741-3318	Sequence 3318, Ap
301	28	58.3	802	9	US-10-195-883-312	Sequence 312, App	374	28	58.3	1055	11	US-11-129-741-3318	Sequence 3318, Ap
302	28	58.3	802	9	US-10-195-888-112	Sequence 312, App	375	28	58.3	1055	11	US-11-129-741-3318	Sequence 3318, Ap
303	28	58.3	802	9	US-10-195-889-112	Sequence 312, App	376	28	58.3	1055	11	US-11-129-741-3318	Sequence 3318, Ap
304	28	58.3	833	11	US-11-188-298-12325	Sequence 12325, A	377	28	58.3	1055	11	US-11-129-741-3318	Sequence 3318, Ap
305	28	58.3	878	11	US-11-103-957-7	Sequence 7, Appl	378	28	58.3	1055	11	US-11-129-741-3318	Sequence 3318, Ap
306	28	58.3	882	11	US-11-018-868-23	Sequence 23, Appl	379	28	58.3	1055	11	US-11-129-741-3318	Sequence 3318, Ap
307	28	58.3	920	9	US-10-330-773-376	Sequence 376, App	380	28	58.3	1055	11	US-11-129-741-3318	Sequence 3318, Ap
308	28	58.3	926	9	US-10-841-129-2	Sequence 2, Appl	381	28	58.3	1055	11	US-11-129-741-3318	Sequence 3318, Ap
309	28	58.3	941	11	US-11-079-463-6927	Sequence 6927, Ap	382	28	58.3	1055	11	US-11-129-741-3318	Sequence 3318, Ap
310	28	58.3	950	8	US-10-511-937-2603	Sequence 2603, Ap	383	28	58.3	1055	11	US-11-129-741-3318	Sequence 3318, Ap
311	28	58.3	984	11	US-11-113-424-60	Sequence 60, Appl	384	28	58.3	1055	11	US-11-129-741-3318	Sequence 3318, Ap
312	28	58.3	984	11	US-11-203-251A-85	Sequence 85, Appl	385	28	58.3	1055	11	US-11-129-741-3318	Sequence 3318, Ap
313	28	58.3	984	11	US-11-203-251A-85	Sequence 85, Appl	386	28	58.3	1055	11	US-11-129-741-3318	Sequence 3318, Ap

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388	267	11	US-11-096-568A-24104	Sequence 24104, A	461	27	56.2	409	11	US-11-087-099-2414	Sequence 2414, Ap
389	269	11	US-11-096-568A-17566	Sequence 17566, A	462	27	56.2	410	11	US-11-188-298-9180	Sequence 9180, Ap
390	271	11	US-11-087-099-2401	Sequence 2401, Ap	463	27	56.2	410	11	US-11-188-298-11564	Sequence 11564, A
391	271	11	US-11-087-099-2750	Sequence 2750, Ap	464	27	56.2	424	9	US-10-921-793-10	Sequence 30, Appl
392	271	11	US-11-087-099-4667	Sequence 4667, Ap	465	27	56.2	424	9	US-10-931-198-10	Sequence 30, Appl
393	271	11	US-11-087-099-5782	Sequence 5782, Ap	466	27	56.2	424	9	US-10-942-042-10	Sequence 30, Appl
394	271	11	US-11-087-099-5782	Sequence 5782, Ap	467	27	56.2	424	9	US-11-128-937-3	Sequence 30, Appl
395	271	11	US-11-087-099-7730	Sequence 7730, Ap	468	27	56.2	427	11	US-11-186-984-91	Sequence 91, Appl
396	271	11	US-11-087-099-11152	Sequence 11152, A	469	27	56.2	435	11	US-11-087-099-6985	Sequence 6985, Ap
397	271	11	US-11-096-568A-23464	Sequence 23464, A	470	27	56.2	435	11	US-11-188-298-17434	Sequence 17434, A
398	271	11	US-11-096-568A-25153	Sequence 25153, A	471	27	56.2	439	11	US-11-096-568A-32725	Sequence 32725, A
399	272	11	US-11-087-099-5910	Sequence 5910, Ap	472	27	56.2	440	11	US-11-098-568A-10923	Sequence 10923, A
400	273	11	US-11-196-475-13	Sequence 13, Appl	473	27	56.2	443	9	US-10-131-8266A-318	Sequence 318, Ap
401	274	11	US-11-096-568A-25841	Sequence 25841, A	474	27	56.2	443	9	US-10-973-1158A-318	Sequence 318, Ap
402	277	11	US-11-096-568A-11418	Sequence 11418, A	475	27	56.2	443	9	US-10-137-873A-318	Sequence 318, Ap
403	279	11	US-11-079-463-7582	Sequence 7582, Ap	476	27	56.2	443	9	US-10-152-370-318	Sequence 318, Ap
404	286	11	US-11-096-568A-24103	Sequence 24103, A	477	27	56.2	443	9	US-11-065-695-16	Sequence 16, Appl
405	287	11	US-11-096-568A-32436	Sequence 32436, A	478	27	56.2	443	11	US-11-290-153-318	Sequence 318, Ap
406	287	11	US-11-188-298-3723	Sequence 373, Ap	479	27	56.2	447	11	US-11-169-041-142	Sequence 142, Ap
407	291	9	US-10-454-437-36	Sequence 36, Appl	480	27	56.2	449	11	US-11-096-568A-24583	Sequence 24583, A
408	292	11	US-11-096-568A-20507	Sequence 20507, A	481	27	56.2	455	11	US-11-096-568A-24582	Sequence 24582, A
409	293	11	US-11-096-568A-17122	Sequence 17122, A	482	27	56.2	465	11	US-11-096-568A-1517	Sequence 1517, Ap
410	293	11	US-11-096-568A-25840	Sequence 25840, A	483	27	56.2	475	9	US-10-878-556A-115	Sequence 115, Ap
411	295	11	US-11-128-937-1	Sequence 1, Appl	484	27	56.2	478	11	US-11-096-568A-3136	Sequence 3136, Ap
412	295	11	US-11-096-568A-3794	Sequence 3794, Ap	485	27	56.2	481	11	US-11-072-512-2394	Sequence 2394, Ap
413	295	11	US-11-096-568A-21266	Sequence 21266, A	486	27	56.2	483	11	US-11-096-568A-3135	Sequence 3135, Ap
414	295	11	US-11-188-298-21960	Sequence 21960, A	487	27	56.2	483	11	US-11-096-568A-3137	Sequence 3137, Ap
415	297	11	US-11-096-568A-18986	Sequence 18986, A	488	27	56.2	484	9	US-10-467-657-9472	Sequence 5472, Ap
416	299	11	US-11-188-298-8972	Sequence 8972, Ap	489	27	56.2	484	9	US-10-763-712A-12	Sequence 12, Appl
417	300	11	US-11-188-298-5214	Sequence 5214, Ap	490	27	56.2	494	11	US-11-188-298-573	Sequence 573, Ap
418	300	11	US-11-188-298-18052	Sequence 18052, A	491	27	56.2	504	11	US-11-188-298-17474	Sequence 17474, A
419	306	11	US-11-188-298-1254	Sequence 1254, Ap	492	27	56.2	507	11	US-11-079-463-8754	Sequence 8754, Ap
420	317	11	US-11-096-568A-19424	Sequence 19424, A	493	27	56.2	509	11	US-11-096-568A-3134	Sequence 3134, Ap
421	317	11	US-11-096-568A-23462	Sequence 23462, A	494	27	56.2	511	11	US-11-188-298-13117	Sequence 13117, A
422	322	11	US-11-188-298-8427	Sequence 8427, A	495	27	56.2	516	11	US-11-072-512-3813	Sequence 3813, Ap
423	324	11	US-11-188-298-21904	Sequence 21904, A	496	27	56.2	528	11	US-11-052-554A-355	Sequence 355, App
424	324	11	US-11-188-298-362	Sequence 362, App	497	27	56.2	518	11	US-11-096-568A-18655	Sequence 18655, A
425	329	11	US-11-188-298-4741	Sequence 4741, Ap	498	27	56.2	525	11	US-11-096-568A-24058	Sequence 24058, A
426	332	11	US-11-082-389-126	Sequence 126, App	499	27	56.2	525	11	US-11-096-568A-1516	Sequence 1516, Ap
427	334	11	US-11-096-568A-24102	Sequence 24102, A	500	27	56.2	527	11	US-11-096-568A-24057	Sequence 24057, A
428	336	11	US-11-096-568A-13596	Sequence 13596, A	501	27	56.2	527	11	US-11-096-568A-26860	Sequence 26860, A
429	337	11	US-11-188-298-18318	Sequence 18318, A	502	27	56.2	528	11	US-11-188-298-11602	Sequence 11602, A
430	337	11	US-11-188-298-20050	Sequence 20050, A	503	27	56.2	528	11	US-11-188-298-13293	Sequence 13293, A
431	337	11	US-11-188-298-20496	Sequence 20496, A	504	27	56.2	528	11	US-11-188-298-3912	Sequence 3912, Ap
432	338	9	US-10-467-657-3178	Sequence 3178, Ap	505	27	56.2	529	11	US-11-079-463-9686	Sequence 9686, Ap
433	338	11	US-11-188-298-6320	Sequence 6320, Ap	506	27	56.2	540	11	US-11-188-298-3912	Sequence 3912, Ap
434	338	11	US-11-188-298-8080	Sequence 8080, Ap	507	27	56.2	541	11	US-11-199-544-32	Sequence 32, Appl
435	338	11	US-11-188-298-10536	Sequence 10536, A	508	27	56.2	556	11	US-11-154-427-98	Sequence 98, Appl
436	338	11	US-11-188-298-13329	Sequence 13329, A	509	27	56.2	566	11	US-11-096-568A-24056	Sequence 24056, A
437	338	11	US-11-188-298-13782	Sequence 13782, A	510	27	56.2	571	11	US-11-188-298-20583	Sequence 20583, A
438	338	11	US-11-188-298-13951	Sequence 13951, A	511	27	56.2	574	9	US-10-507-275-7	Sequence 7, Appl
439	338	11	US-11-188-298-14254	Sequence 14254, A	512	27	56.2	574	9	US-11-070-726-50	Sequence 50, Appl
440	338	11	US-11-188-298-15408	Sequence 15408, A	513	27	56.2	577	11	US-11-096-568A-1515	Sequence 1515, Ap
441	338	11	US-11-188-298-16894	Sequence 16894, A	514	27	56.2	592	10	US-11-301-554A-1809	Sequence 1809, Ap
442	338	11	US-11-188-298-18267	Sequence 18267, A	515	27	56.2	592	11	US-11-059-292A-10	Sequence 10, Appl
443	338	11	US-11-188-298-18443	Sequence 18443, A	516	27	56.2	593	11	US-11-188-298-11982	Sequence 11982, A
444	340	11	US-11-188-298-8037	Sequence 8037, Ap	517	27	56.2	593	11	US-11-188-298-14133	Sequence 14123, A
445	340	11	US-11-188-298-8037	Sequence 8037, Ap	518	27	56.2	593	11	US-11-188-298-18740	Sequence 18740, A
446	342	11	US-11-087-099-5105	Sequence 47, Appl	519	27	56.2	594	11	US-11-188-298-18849	Sequence 18849, A
447	342	11	US-11-087-099-5105	Sequence 5105, Ap	520	27	56.2	595	11	US-11-188-298-18101	Sequence 18101, A
448	343	11	US-11-087-099-2127	Sequence 2127, Ap	521	27	56.2	595	11	US-11-188-298-14061	Sequence 14061, A
449	346	11	US-11-188-298-13573	Sequence 13573, A	522	27	56.2	600	11	US-11-188-298-12067	Sequence 12067, A
450	351	11	US-11-188-298-15372	Sequence 15372, A	523	27	56.2	602	11	US-11-087-099-11552	Sequence 11542, A
451	357	11	US-11-096-568A-20506	Sequence 18372, A	524	27	56.2	619	11	US-11-087-099-8299	Sequence 8299, Ap
452	357	11	US-11-188-298-1663	Sequence 1663, Ap	525	27	56.2	616	11	US-11-087-099-12402	Sequence 12402, A
453	359	11	US-11-087-099-2127	Sequence 5814, Ap	526	27	56.2	620	11	US-11-087-099-3898	Sequence 3898, Ap
454	359	11	US-11-087-099-2127	Sequence 5814, Ap	527	27	56.2	642	11	US-11-188-298-15288	Sequence 15288, A
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456	377	11	US-11-188-298-17381	Sequence 17381, A	529	27	56.2	688	11	US-11-113-424-45	Sequence 45, Appl
457	377	11	US-11-096-568A-16578	Sequence 16578, A	530	27	56.2	688	11	US-11-113-424-45	Sequence 45, Appl
458	389	11	US-11-129-143-82	Sequence 82, Appl	531	27	56.2	688	11	US-11-040-218-25	Sequence 25, Appl
459	395	8	US-10-511-937-2599	Sequence 2599, Ap	532	27	56.2	694	11	US-11-096-568A-26859	Sequence 26859, A

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534	27	56.2	726	11	US-11-079-463-8208	Sequence 8208, Ap	607	26	54.2	235	11	US-11-100-183-24	Sequence 24, App1
535	27	56.2	731	11	US-11-079-463-1170	Sequence 7170, Ap	608	26	54.2	236	11	US-11-224-071-16	Sequence 16, App1
536	27	56.2	747	9	US-10-501-035-224	Sequence 224, App	609	26	54.2	237	11	US-11-188-298-11731	Sequence 11731, A
537	27	56.2	824	11	US-11-096-568A-26858	Sequence 26858, A	610	26	54.2	238	9	US-10-793-626-20	Sequence 20, App1
538	27	56.2	840	11	US-11-079-463-9922	Sequence 9922, Ap	611	26	54.2	238	11	US-11-079-463-8525	Sequence 8525, Ap
539	27	56.2	906	8	US-10-505-928-426	Sequence 426, App	612	26	54.2	240	11	US-11-096-568A-15963	Sequence 16963, A
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542	27	56.2	1116	9	US-10-469-469-277	Sequence 277, App	615	26	54.2	241	11	US-11-130-935-1	Sequence 10976, A
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544	27	56.2	1168	9	US-10-970-750-5	Sequence 5, App1	617	26	54.2	248	11	US-11-188-298-2977	Sequence 2977, Ap
545	27	56.2	1216	9	US-10-873-528-12	Sequence 12, App1	618	26	54.2	249	11	US-11-188-298-2977	Sequence 1032, Ap
546	27	56.2	1235	11	US-11-045-004-1385	Sequence 1385, Ap	619	26	54.2	252	9	US-10-793-626-10732	Sequence 12, App1
547	27	56.2	1464	9	US-10-912-971-4	Sequence 4, App1	620	26	54.2	256	11	US-11-188-298-15238	Sequence 15238, A
548	27	56.2	1464	11	US-11-124-367A-262	Sequence 262, App	621	26	54.2	257	11	US-11-188-298-4937	Sequence 4377, Ap
549	27	56.2	1504	8	US-10-505-928-662	Sequence 662, App	622	26	54.2	258	11	US-11-096-568A-23353	Sequence 23353, A
550	27	56.2	1652	9	US-10-995-561-663	Sequence 663, App	623	26	54.2	261	11	US-11-096-568A-30975	Sequence 30975, A
551	27	56.2	1912	8	US-10-511-937-2561	Sequence 2561, Ap	624	26	54.2	262	11	US-11-096-568A-16648	Sequence 16648, A
552	27	56.2	1938	9	US-10-995-561-661	Sequence 661, App	625	26	54.2	264	11	US-11-096-568A-6112	Sequence 6112, Ap
553	27	56.2	1938	9	US-10-995-561-662	Sequence 662, App	626	26	54.2	270	11	US-11-079-463-6112	Sequence 6112, Ap
554	27	56.2	1954	9	US-10-995-561-660	Sequence 660, App	627	26	54.2	272	11	US-11-087-099-7876	Sequence 7876, Ap
555	27	56.2	1972	9	US-10-995-561-664	Sequence 664, App	628	26	54.2	273	8	US-10-511-814-1	Sequence 1, App1
556	27	56.2	1972	9	US-10-995-561-666	Sequence 666, App	629	26	54.2	273	11	US-11-096-568A-10838	Sequence 10838, A
557	27	56.2	1972	9	US-10-453-772-166	Sequence 166, App	630	26	54.2	274	11	US-11-188-298-11710	Sequence 11710, A
558	27	56.2	2281	9	US-10-453-772-172	Sequence 172, App	631	26	54.2	275	11	US-11-079-463-10403	Sequence 10403, A
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560	27	56.2	2300	9	US-10-455-772-178	Sequence 178, App	633	26	54.2	282	11	US-11-096-568A-14679	Sequence 14679, A
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569	26	54.2	13	9	US-10-511-559-167	Sequence 167, App	642	26	54.2	294	11	US-11-188-298-8529	Sequence 8529, Ap
570	26	54.2	13	9	US-10-511-559-168	Sequence 168, App	643	26	54.2	294	11	US-11-188-298-8968	Sequence 8968, Ap
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573	26	54.2	85	11	US-11-087-099-924	Sequence 924, App	646	26	54.2	294	11	US-11-188-298-17053	Sequence 17053, A
574	26	54.2	85	9	US-10-475-075-840	Sequence 840, App	647	26	54.2	294	11	US-11-188-298-19359	Sequence 19359, A
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577	26	54.2	92	11	US-11-096-568A-8700	Sequence 8700, Ap	650	26	54.2	294	11	US-11-188-298-21144	Sequence 21144, A
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579	26	54.2	96	9	US-10-485-788A-710	Sequence 710, App	652	26	54.2	294	11	US-11-037-243-107	Sequence 107, App
580	26	54.2	96	11	US-11-053-076-80	Sequence 80, App1	653	26	54.2	298	11	US-10-194-487-132	Sequence 132, App
581	26	54.2	96	11	US-11-079-463-6618	Sequence 6618, Ap	654	26	54.2	300	9	US-10-195-888-132	Sequence 132, App
582	26	54.2	104	11	US-11-096-568A-27333	Sequence 27333, A	655	26	54.2	300	9	US-10-195-888-132	Sequence 132, App
583	26	54.2	117	11	US-11-098-686-10378	Sequence 10378, A	656	26	54.2	300	9	US-10-195-888-132	Sequence 132, App
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586	26	54.2	156	11	US-11-079-463-5578	Sequence 5578, Ap	659	26	54.2	302	11	US-11-188-298-2211	Sequence 9211, Ap
587	26	54.2	162	11	US-11-188-298-8839	Sequence 8839, Ap	660	26	54.2	302	11	US-11-188-298-2211	Sequence 9211, Ap
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589	26	54.2	165	11	US-11-045-004-2675	Sequence 2675, Ap	662	26	54.2	306	9	US-10-467-651-1318	Sequence 1318, Ap
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595	26	54.2	193	11	US-11-096-568A-10840	Sequence 10840, A	668	26	54.2	313	11	US-11-188-298-17086	Sequence 17086, Ap
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597	26	54.2	203	9	US-10-506-454-801	Sequence 801, App	670	26	54.2	319	11	US-11-109-156-38	Sequence 38, App1
598	26	54.2	204	9	US-10-506-454-1222	Sequence 1222, Ap	671	26	54.2	320	11	US-11-079-463-8013	Sequence 8013, Ap
599	26	54.2	206	9	US-10-506-454-1454	Sequence 1454, Ap	672	26	54.2	323	9	US-10-878-556A-184	Sequence 184, App1
600	26	54.2	208	9	US-10-793-626-1404	Sequence 1404, Ap	673	26	54.2	323	11	US-11-109-156-37	Sequence 37, App1
601	26	54.2	214	11	US-11-079-463-6302	Sequence 6302, Ap	674	26	54.2	323	11	US-11-096-568A-31550	Sequence 31550, A
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603	26	54.2	218	11	US-11-156-084-96	Sequence 96, App1	676	26	54.2	329	11	US-10-793-626-1260	Sequence 1260, Ap
604	26	54.2	222	11	US-11-096-568A-10839	Sequence 10839, A	677	26	54.2	329	11	US-11-156-084-28	Sequence 28, App1
605	26	54.2	231	9	US-10-455-772-1124	Sequence 1124, Ap	678	26	54.2	329	11	US-11-156-084-46	Sequence 46, App1

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683	26	54.2	332	11	US-11-156-094-293	Sequence 293, App	756	26	54.2	429	9	US-10-921-793-28	Sequence 28, Appl
684	26	54.2	334	11	US-11-096-568A-6294	Sequence 6294, App	757	26	54.2	429	9	US-10-931-198-78	Sequence 28, Appl
685	26	54.2	335	11	US-11-087-099-267	Sequence 267, App	758	26	54.2	429	9	US-10-942-042-28	Sequence 28, Appl
686	26	53.2	336	11	US-11-096-568A-14878	Sequence 14878, App	759	26	54.2	429	11	US-11-000-463-302	Sequence 302, App
687	26	53.2	337	11	US-11-102-497-5	Sequence 5, Appl	760	26	54.2	429	11	US-11-000-463-774	Sequence 774, App
688	26	53.2	337	11	US-11-102-497-12	Sequence 12, Appl	761	26	54.2	432	11	US-10-992-577-2	Sequence 2, Appl
689	26	54.2	340	11	US-11-188-298-2839	Sequence 2839, App	762	26	54.2	432	11	US-11-223-294-37	Sequence 37, Appl
690	26	54.2	341	11	US-11-098-686-11432	Sequence 11432, A	763	26	54.2	435	11	US-11-096-568A-4749	Sequence 4749, App
691	26	54.2	341	11	US-11-087-099-3768	Sequence 3768, App	764	26	54.2	435	11	US-10-467-657-5694	Sequence 5694, App
692	26	54.2	345	11	US-11-087-099-7803	Sequence 7803, App	765	26	54.2	435	11	US-11-096-568A-31780	Sequence 31780, A
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694	26	53.2	346	11	US-11-087-099-4438	Sequence 4438, App	767	26	54.2	437	11	US-11-096-568A-17555	Sequence 17555, App
695	26	54.2	348	11	US-11-087-099-5608	Sequence 5608, App	768	26	54.2	439	8	US-10-370-959-64	Sequence 64, Appl
696	26	54.2	348	11	US-11-087-099-5780	Sequence 5780, App	769	26	54.2	441	11	US-11-079-463-9619	Sequence 9619, App
697	26	54.2	348	11	US-11-087-099-7924	Sequence 7924, App	770	26	54.2	449	11	US-11-098-686-10535	Sequence 10535, A
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699	26	54.2	348	11	US-11-188-298-7313	Sequence 7313, App	772	26	54.2	452	11	US-11-087-099-10811	Sequence 10811, A
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703	26	54.2	350	11	US-11-087-099-5151	Sequence 5151, App	776	26	54.2	458	11	US-11-079-463-6601	Sequence 6601, App
704	26	54.2	350	11	US-11-087-099-7980	Sequence 7980, App	777	26	54.2	462	11	US-11-087-099-8611	Sequence 8611, App
705	26	54.2	353	11	US-11-188-298-11148	Sequence 11148, App	778	26	54.2	464	11	US-11-096-568A-4747	Sequence 4747, App
706	26	54.2	353	11	US-11-096-568A-28194	Sequence 28194, A	779	26	54.2	469	11	US-11-188-298-2103	Sequence 2103, App
707	26	54.2	359	11	US-11-096-568A-21778	Sequence 21778, A	780	26	54.2	476	11	US-11-079-463-9043	Sequence 9043, App
708	26	54.2	360	11	US-11-264-096-1308	Sequence 1308, App	781	26	54.2	477	11	US-11-087-099-3571	Sequence 3571, App
709	26	54.2	363	11	US-11-087-099-9277	Sequence 9277, App	782	26	54.2	479	11	US-11-188-298-11467	Sequence 11467, A
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718	26	54.2	373	11	US-11-096-568A-30166	Sequence 30166, A	791	26	54.2	512	11	US-11-169-041-178	Sequence 178, App
719	26	54.2	374	11	US-11-097-728-4	Sequence 4, Appl	792	26	54.2	521	11	US-11-188-298-7406	Sequence 7406, App
720	26	54.2	374	11	US-11-188-298-10826	Sequence 10826, A	793	26	54.2	524	11	US-11-188-298-6283	Sequence 6283, App
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722	26	54.2	379	11	US-11-185-033-4	Sequence 4, Appl	795	26	54.2	551	11	US-11-087-099-8478	Sequence 8478, App
723	26	54.2	380	9	US-10-793-626-702	Sequence 702, App	796	26	54.2	555	11	US-11-045-004-1565	Sequence 1565, App
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726	26	54.2	392	9	US-10-498-026-90	Sequence 90, Appl	799	26	54.2	574	11	US-11-098-686-18570	Sequence 18570, A
727	26	54.2	395	11	US-11-124-367A-287	Sequence 287, App	800	26	54.2	576	11	US-11-098-686-10763	Sequence 10763, A
728	26	54.2	395	11	US-11-124-367A-288	Sequence 288, App	801	26	54.2	578	11	US-11-188-298-20381	Sequence 20381, A
729	26	54.2	395	11	US-11-188-298-16610	Sequence 16610, A	802	26	54.2	589	11	US-11-096-568A-1127	Sequence 1127, App
730	26	54.2	396	8	US-10-496-399-1	Sequence 1, Appl	803	26	54.2	612	11	US-11-079-463-9127	Sequence 9127, App
731	26	54.2	396	9	US-10-921-793-6	Sequence 6, Appl	804	26	54.2	614	9	US-10-714-995-10	Sequence 10, Appl
732	26	54.2	396	9	US-10-501-035-204	Sequence 204, App	805	26	54.2	617	9	US-10-878-556A-67	Sequence 67, Appl
733	26	54.2	396	9	US-10-931-198-6	Sequence 6, Appl	806	26	54.2	625	11	US-11-188-298-19611	Sequence 19611, A
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737	26	54.2	396	11	US-11-185-033-5	Sequence 5, Appl	810	26	54.2	681	11	US-11-096-568A-30145	Sequence 30145, A
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742	26	54.2	404	11	US-11-096-568A-31781	Sequence 31781, A	815	26	54.2	703	11	US-11-119-659-19	Sequence 19, App
743	26	54.2	405	11	US-11-096-568A-17556	Sequence 17556, A	816	26	54.2	717	9	US-10-793-626-1022	Sequence 3022, App
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745	26	54.2	410	11	US-11-188-298-372	Sequence 372, App	818	26	54.2	731	11	US-11-188-298-22532	Sequence 22532, A
746	26	54.2	411	9	US-10-793-626-3156	Sequence 3156, App	819	26	54.2	735	9	US-10-505-263-89	Sequence 89, Appl
747	26	54.2	414	11	US-11-087-099-8301	Sequence 8301, App	820	26	54.2	736	11	US-11-053-100-45	Sequence 23, Appl
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827	26	54.2	801	11	US-11-174-150-29	Sequence 29, Appl	900	25	52.1	114	9	US-10-821-234-1637	Sequence 1637, Ap
828	26	54.2	801	11	US-11-124-368A-292	Sequence 292, App	901	25	52.1	114	11	US-11-189-120-3	Sequence 3, Appl1
829	26	54.2	811	11	US-11-188-298-19556	Sequence 19556, A	902	25	52.1	114	11	US-11-177-506-30	Sequence 30, Appl1
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831	26	54.2	891	11	US-11-188-298-1187	Sequence 1187, Ap	904	25	52.1	119	11	US-11-172-740-369	Sequence 369, App
832	26	54.2	902	11	US-11-188-298-12010	Sequence 12010, A	905	25	52.1	120	11	US-11-000-463-725	Sequence 725, App
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837	26	54.2	937	11	US-11-096-568A-29893	Sequence 29893, A	910	25	52.1	135	11	US-11-079-463-8678	Sequence 8678, Ap
838	26	54.2	941	9	US-10-501-035-343	Sequence 343, App	911	25	52.1	138	11	US-11-079-463-8678	Sequence 3337, App
839	26	54.2	962	9	US-10-853-807A-51	Sequence 51, Appl	912	25	52.1	143	11	US-11-158-655-8	Sequence 8, Appl1
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ALIGNMENTS

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RESULT 1
US-10-511-814-8
; Sequence 8, Application US/10511814
; Publication No. US20060088472A1
; GENERAL INFORMATION:
; APPLICANT: McCance, Dennis
; APPLICANT: Westbrook, III, Thomas F.
; TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
; FILE REFERENCE: 21108.0016U2
; CURRENT FILING DATE: US/10/511,814
; PRIOR FILING DATE: 2004-10-19
; PRIOR APPLICATION NUMBER: PCT/US03/12667
; PRIOR FILING DATE: 2003-04-21
; PRIOR APPLICATION NUMBER: 60/374,245
; PRIOR FILING DATE: 2002-04-19
; NUMBER OF SEQ ID NOS: 21
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; SEQ ID NO 8
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; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:/Note =
US-10-511-814-8
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Best Local Similarity 100.0%; Pred. No. 0.011;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 7 TLHEYMIDL 15
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US-10-511-814-11
; Sequence 11, Application US/10511814
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; Publication No. US20060088472A1
; GENERAL INFORMATION:
; APPLICANT: McCance, Dennis
; APPLICANT: Westbrook, III, Thomas F.
; TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
; FILE REFERENCE: 21108.0016U2
; CURRENT FILING DATE: US/10/511,814
; PRIOR FILING DATE: 2004-10-19
; PRIOR APPLICATION NUMBER: PCT/US03/12667
; PRIOR FILING DATE: 2003-04-21
; PRIOR APPLICATION NUMBER: 60/374,245
; PRIOR FILING DATE: 2002-04-19
; NUMBER OF SEQ ID NOS: 21
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US-10-511-814-11
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Db 7 TLHEYMIDL 15
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RESULT 3
US-10-530-253-14
; Sequence 14, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casaccia, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT FILING DATE: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 14
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; ORGANISM: Human papillomavirus type 16
US-10-530-253-14
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RESULT 4
US-11-179-478-4
; Sequence 4, Application US/11179478
; Publication No. US20050249745A1
; GENERAL INFORMATION:
; APPLICANT: BURGER, Alexander
; APPLICANT: HALLEK, Michael
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TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
TITLE OF INVENTION: FORMULATIONS AND METHODS OF USE
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/11/179,478
FILING DATE: 13-JULY-2005
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/10/654,129
FILING DATE: 04-Sep-2003
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Sandercock, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-11-179-478-4

Query Match 100.0%; Score 48; DB 11; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.011;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLHEYMULD 9
Db 7 TLHEYMULD 15

RESULT 5
US-10-530-253-1
Sequence 1, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Casasetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
PRIOR FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 1
LENGTH: 248
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-530-253-1

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Best Local Similarity 100.0%; Pred. No. 0.031;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLHEYMULD 9
Db 157 TLHEYMULD 165

RESULT 6
US-10-530-253-3
Sequence 3, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Casasetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
PRIOR FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 3
LENGTH: 248
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-530-253-3

Query Match 100.0%; Score 48; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.031;
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QY 1 TLHEYMULD 9
Db 157 TLHEYMULD 165

RESULT 7
US-10-530-253-5
Sequence 5, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Casasetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
PRIOR FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
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US-10-530-253-5

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Db 157 TLHEYMIDL 165

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RESULT 8
US-10-530-253-7
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; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
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US-10-530-253-7
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Query Match 100.0%; Score 48; DB 9; Length 248;
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; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
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US-10-530-253-9
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US-10-530-253-11

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; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
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US-10-530-253-11
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7 TLHEYMIDL 15

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RESULT 11
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
; APPLICANT: PANG, XIAOMU
; TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
; FILE REFERENCE: 116620-003
; CURRENT APPLICATION NUMBER: US/11/192,923A
; CURRENT FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: CN 03115272.4
; PRIOR FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: CN 03115273.2
; PRIOR FILING DATE: 2003-01-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-11-192-923A-2
```

Query Match 100.0%; Score 48; DB 11; Length 256;
Best Local Similarity 100.0%; Pred. No. 0.032;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLHEYMIDL 9
|||||
7 TLHEYMIDL 15

```
RESULT 12
US-10-530-061-1711
; Sequence 1711, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
```


FILE REFERENCE: 2060.033US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 1711
LENGTH: 15
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-1711

Query Match 81.2%; Score 39; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.079;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 HEYMLDL 9
Db 1 HEYMLDL 7

RESULT 13
US-10-530-253-36
Sequence 36, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Casseati, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 36
LENGTH: 98
TYPE: PRT
ORGANISM: Human papillomavirus type 58
US-10-530-253-36

Query Match 75.0%; Score 36; DB 9; Length 98;
Best Local Similarity 77.8%; Pred. No. 2.7;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLHEYMLDL 9
Db 7 TLHEYMLDL 15

RESULT 14
US-10-530-061-133
Sequence 133, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.033US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308

PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 133
LENGTH: 11
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-133

Query Match 72.9%; Score 35; DB 9; Length 11;
Best Local Similarity 77.8%; Pred. No. 0.35;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLHEYMLDL 9
Db 2 TLHEYMLDL 10

RESULT 15
US-10-530-061-145
Sequence 145, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.033US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 145
LENGTH: 11
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-145

Query Match 72.9%; Score 35; DB 9; Length 11;
Best Local Similarity 77.8%; Pred. No. 0.35;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLHEYMLDL 9
Db 2 TLHEYMLDL 10

RESULT 16
US-10-530-253-29
Sequence 29, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Casseati, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929

;; PRIOR FILING DATE: 2002-10-03
;; NUMBER OF SEQ ID NOS: 65
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 29
;; LENGTH: 97
;; TYPE: PRT
;; ORGANISM: Human papillomavirus type 33
US-10-530-253-29

Query Match 72.9%; Score 35; DB 9; Length 97;
Best Local Similarity 77.8%; Pred. No. 4.3;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLHEYMIDL 9
|||
Db 7 TLHEYMIDL 15

RESULT 17
US-10-496-399-3
; Sequence 3, Application US/10496399
; Publication No. US20060088565A1
; GENERAL INFORMATION:
; APPLICANT: SCIL Biomedicals GmbH
; APPLICANT: KOHNERT, ULRICH
; APPLICANT: HELBERBRAND, KLAUS
; APPLICANT: POHLING, SYLKE
; APPLICANT: HAPERBERGER, PETER
; TITLE OF INVENTION: DEVICE HAVING OSTEOINDUCTIVE AND OSTEOCONDUCTIVE PROPERTIES
; FILE REFERENCE: 00848-0308681
; CURRENT APPLICATION NUMBER: US/10/496,399
; CURRENT FILING DATE: 2004-05-19
; PRIOR APPLICATION NUMBER: 01 12 7573.2
; PRIOR FILING DATE: 2001-11-19
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 501
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-10-496-399-3

Query Match 72.9%; Score 35; DB 8; Length 501;
Best Local Similarity 77.8%; Pred. No. 28;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TLHEYMIDL 9
|||
Db 168 TPHEYMIDL 176

RESULT 18
US-11-191-072-2
; Sequence 2, Application US/11191072
; Publication No. US2005028255A1
; GENERAL INFORMATION:
; APPLICANT: Hotten, Gertrud
; APPLICANT: Bechtold, Rolf
; APPLICANT: Pohl, Jens
; TITLE OF INVENTION: Monomeric Protein of the TGF-beta Family
; FILE REFERENCE: 2923-128
; CURRENT APPLICATION NUMBER: US/11/191,072
; CURRENT FILING DATE: 2005-07-28
; PRIOR APPLICATION NUMBER: US/10/048,458
; PRIOR FILING DATE: 2002-02-06
; PRIOR APPLICATION NUMBER: PCT/EP00/07600
; PRIOR FILING DATE: 2000-08-04
; PRIOR APPLICATION NUMBER: EP 99115613.4
; PRIOR FILING DATE: 1999-08-06
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 501

;; TYPE: PRT
;; ORGANISM: Homo sapiens
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (465)..(465)
;; OTHER INFORMATION: Xaa = any amino acid
US-11-191-072-2

Query Match 72.9%; Score 35; DB 11; Length 501;
Best Local Similarity 77.8%; Pred. No. 28;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TLHEYMIDL 9
|||
Db 168 TPHEYMIDL 176

RESULT 19
US-10-392-234A-67
; Sequence 67, Application US/10392234A
; Publication No. US2005025538A1
; GENERAL INFORMATION:
; APPLICANT: Pharmacia and Upjohn Corporation
; APPLICANT: Buxser, Steven
; APPLICANT: Poole, Keith
; APPLICANT: Decker, Douglas
; APPLICANT: Xianhui Li
; TITLE OF INVENTION: Method for Screening for acRAB Transporter Family Inhibitors
; FILE REFERENCE: 6206
; CURRENT APPLICATION NUMBER: US/10/392,234A
; CURRENT FILING DATE: 2003-03-17
; PRIOR APPLICATION NUMBER: US 60/364,935
; PRIOR FILING DATE: 2002-03-15
; NUMBER OF SEQ ID NOS: 67
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 67
; LENGTH: 1032
; TYPE: PRT
; ORGANISM: Haemophilus influenzae
US-10-392-234A-67

Query Match 70.8%; Score 34; DB 9; Length 1032;
Best Local Similarity 75.0%; Pred. No. 1e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 LHEYMIDL 9
::|||
Db 517 VVEYMIDL 524

RESULT 20
US-11-139-435-2
; Sequence 2, Application US/11139435
; Publication No. US20050287664A1
; GENERAL INFORMATION:
; APPLICANT: Fam, Ming-Ji
; TITLE OF INVENTION: Cellular Proliferation Control Factors
; FILE REFERENCE: 17741-002001
; CURRENT APPLICATION NUMBER: US/11/139,435
; CURRENT FILING DATE: 2005-05-27
; PRIOR APPLICATION NUMBER: US 60/575,611
; PRIOR FILING DATE: 2004-05-27
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 1191
; TYPE: PRT
; ORGANISM: M. musculus
US-11-139-435-2

Query Match 70.8%; Score 34; DB 11; Length 1191;
Best Local Similarity 62.5%; Pred. No. 1.2e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLHEYMULD 8
|:|:|:|:
Db 566 TVHEVILE 573

RESULT 21
US-11-139-435-3
; Sequence 3, Application US/11139435
; Publication No. US20050287664A1
; GENERAL INFORMATION:
; APPLICANT: Fann, Ming-ji
; TITLE OF INVENTION: Cellular Proliferation Control Factors
; FILE REFERENCE: 17741-002001
; CURRENT APPLICATION NUMBER: US/11/139,435
; PRIOR FILING DATE: 2005-05-27
; PRIOR APPLICATION NUMBER: US 60/575,611
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 1193
; TYPE: PRT
; ORGANISM: R. norvegicus
US-11-139-435-3

Query Match 70.8%; Score 34; DB 11; Length 1193;
Best Local Similarity 62.5%; Pred. No. 1.2e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLHEYMULD 8
|:|:|:|:
Db 567 TVHEVILE 574

RESULT 22
US-10-530-253-28
; Sequence 28, Application US/10530253
; Publication No. US2006004926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 28
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type 31
US-10-530-253-28

Query Match 68.8%; Score 33; DB 9; Length 98;
Best Local Similarity 66.7%; Pred. No. 11;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLHEYMULD 9
|:|:|:|:
Db 7 TLQDYVLDL 15

RESULT 23
US-10-530-253-30
; Sequence 30, Application US/10530253
; Publication No. US2006004926A1

; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 30
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Human papillomavirus type 35
US-10-530-253-30

Query Match 68.8%; Score 33; DB 9; Length 99;
Best Local Similarity 66.7%; Pred. No. 11;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLHEYMULD 9
|:|:|:|:
Db 7 TLQDYVLDL 15

RESULT 24
US-11-096-568A-25429
; Sequence 25429, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; PRIOR FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 25429
; LENGTH: 317
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)..(317)
; OTHER INFORMATION: Ceres Seq. ID no. 12595160
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (209)..(209)
; OTHER INFORMATION: Xaa is any aa, unknown or other
US-11-096-568A-25429

Query Match 68.8%; Score 33; DB 11; Length 317;
Best Local Similarity 85.7%; Pred. No. 42;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 LHEYMULD 8
|:|:|:|:
Db 132 LHEYMULD 138

RESULT 25
US-11-096-568A-25428
; Sequence 25428, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; PRIOR FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 25428
; LENGTH: 317
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)..(317)
; OTHER INFORMATION: Ceres Seq. ID no. 12595160
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (209)..(209)
; OTHER INFORMATION: Xaa is any aa, unknown or other
US-11-096-568A-25428

```
FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 344/71
; SEQ ID NO 25428
; LENGTH: 329
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(329)
; OTHER INFORMATION: Ceres Seq. ID no. 12595159
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (221)..(221)
; OTHER INFORMATION: Xaa is any aa, unknown or other
US-11-096-568A-25428

Query Match      68.8%; Score 33; DB 11; Length 329;
Best Local Similarity 85.7%; Pred. No. 43;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      2 LHEYMULD 8
        |||||
Db      144 LHEYRLD 150

RESULT 26
US-11-096-568A-25427
; Sequence 25427, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 344/71
; SEQ ID NO 25427
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(338)
; OTHER INFORMATION: Ceres Seq. ID no. 12595158
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (230)..(230)
; OTHER INFORMATION: Xaa is any aa, unknown or other
US-11-096-568A-25427

Query Match      68.8%; Score 33; DB 11; Length 338;
Best Local Similarity 85.7%; Pred. No. 45;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      2 LHEYMULD 8
        |||||
Db      153 LHEYRLD 159

RESULT 27
US-11-188-298-5118
; Sequence 5118, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; NUMBER OF SEQ ID NOS: 60/592,978
; PRIOR APPLICATION NUMBER: 60/592,978
```

```
PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 5118
; LENGTH: 510
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(510)
; OTHER INFORMATION: unsure at all Xaa locations
US-11-188-298-5118

Query Match      68.8%; Score 33; DB 11; Length 510;
Best Local Similarity 75.0%; Pred. No. 72;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      2 LHEYMULD 9
        |||||
Db      59 LHMYWTDL 66

RESULT 28
US-11-188-298-3154
; Sequence 3154, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 3154
; LENGTH: 520
; TYPE: PRT
; ORGANISM: Glycine max
US-11-188-298-3154

Query Match      68.8%; Score 33; DB 11; Length 520;
Best Local Similarity 75.0%; Pred. No. 73;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      2 LHEYMULD 9
        |||||
Db      59 LHMYWTDL 66

RESULT 29
US-10-506-454-1532
; Sequence 1532, Application US/10506454
; Publication No. US20060068386A1
; GENERAL INFORMATION:
; APPLICANT: Slesarev, Alexi I
; APPLICANT: Mezhevaya, Katiya V
; APPLICANT: Polushin, Nikolai N
; APPLICANT: Shcherbina, Olga V
; APPLICANT: Shakhova, Vera V
; APPLICANT: Malykh, Andrei G
; APPLICANT: Kozavkin, Sergei A
; TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile
; TITLE OF INVENTION: Methanopyrus Kandleri AV19 and Monophyly of Archaeal Methanogens
; TITLE OF INVENTION: and Methods of Use Thereof
; FILE REFERENCE: FID001
; CURRENT APPLICATION NUMBER: US/10/506,454
; CURRENT FILING DATE: 2004-08-31
; PRIOR APPLICATION NUMBER: PCT/US03/06664
; PRIOR FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: 60/361,742
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1722
; SOFTWARE: PatentIn version 3.2
```

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; SEQ ID NO 1532
; LENGTH: 1771
; TYPE: PRT
; ORGANISM: Methanopyrus kandleri
US-10-506-454-1532

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```

Query Match          68.8%; Score 33; DB 9; Length 1771;
Best Local Similarity 62.5%; Pred. No. 3e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

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QY      2 LHEHYMLDL 9
      |||:|:|
Db      876 LHDFILDL 883

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RESULT 30
US-11-096-568A-25375
; Sequence 25375, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 25375
; LENGTH: 181
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(181)
; OTHER INFORMATION: Ceres Seq. ID no. 12589189
US-11-096-568A-25375

```

```

Query Match          66.7%; Score 32; DB 11; Length 181;
Best Local Similarity 71.4%; Pred. No. 35;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

```

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QY      1 TLHEHYML 7
      |||:|:|
Db      163 TLHQVYLL 169

```

```

RESULT 31
US-11-188-298-15586
; Sequence 15586, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 15586
; LENGTH: 210
; TYPE: PRT
; ORGANISM: Triticum aestivum
US-11-188-298-15586

```

```

Query Match          66.7%; Score 32; DB 11; Length 210;
Best Local Similarity 55.6%; Pred. No. 41;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

```

```

QY      1 TLHEHYMLDL 9
      |||:|:|
Db      193 TTHEYAKDI 201

```

```

RESULT 32
US-11-096-568A-25373
; Sequence 25373, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 25373
; LENGTH: 242
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(242)
; OTHER INFORMATION: Ceres Seq. ID no. 12589187
US-11-096-568A-25373

```

```

Query Match          66.7%; Score 32; DB 11; Length 242;
Best Local Similarity 71.4%; Pred. No. 48;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 TLHEHYML 7
      |||:|:|
Db      224 TLHQVYLL 230

```

```

RESULT 33
US-11-188-298-21510
; Sequence 21510, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 21510
; LENGTH: 318
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(318)
; OTHER INFORMATION: unsure at all Xaa locations
US-11-188-298-21510

```

```

Query Match          66.7%; Score 32; DB 11; Length 318;
Best Local Similarity 55.6%; Pred. No. 66;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

```

```

QY      1 TLHEHYMLDL 9
      |||:|:|
Db      301 TTHEYAKDI 309

```

```

RESULT 34
US-11-188-298-5415
; Sequence 5415, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298

```

```

; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 5415
; LENGTH: 357
; TYPE: PRT
; ORGANISM: Trifolium aestivum
US-11-188-298-5415

Query Match
Best Local Similarity 66.7%; Score 32; DB 11; Length 357;
Pred. No. 76;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 TLHEYMLDL 9
DB 340 TIHEYAKDI 348

RESULT 35
US-11-188-298-10690
; Sequence 10690, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 10690
; LENGTH: 391
; TYPE: PRT
; ORGANISM: Thermosynechococcus elongatus BP-1
US-11-188-298-10690

Query Match
Best Local Similarity 66.7%; Score 32; DB 11; Length 391;
Pred. No. 84;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 LHEYMLDL 9
DB 307 LHRIVLDI 314

RESULT 36
US-11-188-298-8306
; Sequence 8306, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 8306
; LENGTH: 457
; TYPE: PRT
; ORGANISM: Trifolium aestivum
US-11-188-298-8306

Query Match
Best Local Similarity 66.7%; Score 32; DB 11; Length 457;
Pred. No. 1e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 TLHEYMLDL 9
DB 440 TIHEYAKDI 448
```

```

RESULT 37
US-11-188-298-16340
; Sequence 16340, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 16340
; LENGTH: 545
; TYPE: PRT
; ORGANISM: Trifolium aestivum
US-11-188-298-16340

Query Match
Best Local Similarity 66.7%; Score 32; DB 11; Length 545;
Pred. No. 1.2e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 TLHEYMLDL 9
DB 528 TIHEYAKDI 536

RESULT 38
US-11-188-298-2432
; Sequence 2432, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 2432
; LENGTH: 661
; TYPE: PRT
; ORGANISM: Trifolium aestivum
US-11-188-298-2432

Query Match
Best Local Similarity 66.7%; Score 32; DB 11; Length 661;
Pred. No. 1.5e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 TLHEYMLDL 9
DB 644 TIHEYAKDI 652

RESULT 39
US-11-188-298-16707
; Sequence 16707, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 16707
; LENGTH: 666
```

```

; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(666)
; OTHER INFORMATION: unsure at all Xaa locations
US-11-188-298-16707

```

```

Query Match          66.7%; Score 32; DB 11; Length 666;
Best Local Similarity 55.6%; Pred. No. 1.5e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

```

```

QY      1 TLHEMYMDL 9
        |||||
Db      649 TIHEYAKDI 657

```

```

RESULT 40
US-11-188-298-7111
; Sequence 7111, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 7111
; LENGTH: 674
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(674)
; OTHER INFORMATION: unsure at all Xaa locations
US-11-188-298-7111

```

```

Query Match          66.7%; Score 32; DB 11; Length 674;
Best Local Similarity 55.6%; Pred. No. 1.6e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

```

```

QY      1 TLHEMYMDL 9
        |||||
Db      657 TIHEYAKDI 665

```

```

RESULT 41
US-11-188-298-10743
; Sequence 10743, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 10743
; LENGTH: 674
; TYPE: PRT
; ORGANISM: Zea mays
US-11-188-298-10743

```

```

Query Match          66.7%; Score 32; DB 11; Length 674;
Best Local Similarity 55.6%; Pred. No. 1.6e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
QY      1 TLHEMYMDL 9

```

```

Db      657 TIHEYAKDI 665

```

```

RESULT 42
US-11-087-099-2704
; Sequence 2704, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 2704
; LENGTH: 765
; TYPE: PRT
; ORGANISM: Hypocrea jecorina
US-11-087-099-2704

```

```

Query Match          66.7%; Score 32; DB 11; Length 765;
Best Local Similarity 85.7%; Pred. No. 1.8e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      1 TLHEMYML 7
        |||||
Db      222 TLHEYTL 228

```

```

RESULT 43
US-11-188-298-2574
; Sequence 2574, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 2574
; LENGTH: 765
; TYPE: PRT
; ORGANISM: Hypocrea jecorina
US-11-188-298-2574

```

```

Query Match          66.7%; Score 32; DB 11; Length 765;
Best Local Similarity 85.7%; Pred. No. 1.8e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      1 TLHEMYML 7
        |||||
Db      222 TLHEYTL 228

```

```

RESULT 44
US-11-188-298-11948
; Sequence 11948, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 11948
; LENGTH: 837

```

```

; TYPE: PRT
; ORGANISM: Triticum aestivum
US-11-188-298-11948

Query Match          66.7%; Score 32; DB 11; Length 837;
Best Local Similarity 55.6%; Pred. No. 2e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy      1 TLHEYMLDL 9
       |||||
Db      820 TIHEYAKDI 828

RESULT 45
US-11-188-298-10379
; Sequence 10379, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 10379
; LENGTH: 928
; TYPE: PRT
; ORGANISM: Oryza sativa
US-11-188-298-10379

Query Match          66.7%; Score 32; DB 11; Length 928;
Best Local Similarity 55.6%; Pred. No. 2.3e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy      1 TLHEYMLDL 9
       |||||
Db      911 TIHEYAKDI 919

RESULT 46
US-11-188-298-14345
; Sequence 14345, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 14345
; LENGTH: 928
; TYPE: PRT
; ORGANISM: Oryza sativa
US-11-188-298-14345

Query Match          66.7%; Score 32; DB 11; Length 928;
Best Local Similarity 55.6%; Pred. No. 2.3e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy      1 TLHEYMLDL 9
       |||||
Db      911 TIHEYAKDI 919

RESULT 47
US-11-188-298-14566
; Sequence 14566, Application US/11188298
; Publication No. US20060075522A1

; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 14566
; LENGTH: 937
; TYPE: PRT
; ORGANISM: Oryza sativa
US-11-188-298-14566

Query Match          66.7%; Score 32; DB 11; Length 937;
Best Local Similarity 55.6%; Pred. No. 2.3e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy      1 TLHEYMLDL 9
       |||||
Db      920 TIHEYAKDI 928

RESULT 48
US-11-188-298-10424
; Sequence 10424, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 10424
; LENGTH: 951
; TYPE: PRT
; ORGANISM: Oryza sativa (japonica cultivar-group)
US-11-188-298-10424

Query Match          66.7%; Score 32; DB 11; Length 951;
Best Local Similarity 55.6%; Pred. No. 2.3e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy      1 TLHEYMLDL 9
       |||||
Db      934 TIHEYAKDI 942

RESULT 49
US-11-188-298-8110
; Sequence 8110, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 8110
; LENGTH: 955
; TYPE: PRT
; ORGANISM: Ipomoea batatas
US-11-188-298-8110

Query Match          66.7%; Score 32; DB 11; Length 955;
Best Local Similarity 55.6%; Pred. No. 2.3e+02;
```


Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
Qy 1 TLHEYMLDL 9
|:|:|:|:
Db 938 TIHEYAKDI 946

RESULT 50
US-11-188-298-19236
; Sequence 19236, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 19236
; LENGTH: 955
; TYPE: PRT
; ORGANISM: Ipomoea batatas
US-11-188-298-19236

Query Match 66.7%; Score 32; DB 11; Length 955;
Best Local Similarity 55.6%; Pred. No. 2.3e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TLHEYMLDL 9
|:|:|:|:
Db 938 TIHEYAKDI 946

Search completed: May 5, 2006, 08:07:48
Job time : 9.5 secs

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GenCore version 5.1.7
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OW protein - protein search, using BW model

Run on: May 5, 2006, 01:38:21 ; Search time 20.8 Seconds
(without alignments)
35.773 Million cell updates/sec

Title: US-08-170-344-14
Perfect score: 48
Sequence: 1 YMLDQPERT 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database : Issued Patents AA: *
1: /cgn2_6/prodata/1/1aa/5.COMB.pep: *
2: /cgn2_6/prodata/1/1aa/6.COMB.pep: *
3: /cgn2_6/prodata/1/1aa/H.COMB.pep: *
4: /cgn2_6/prodata/1/1aa/ECTUS.COMB.pep: *
5: /cgn2_6/prodata/1/1aa/RE.COMB.pep: *
6: /cgn2_6/prodata/1/1aa/backfile11.pep: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	48	100.0	9	1	US-08-787-547-104
2	48	100.0	9	2	US-08-948-378A-17
3	48	100.0	9	2	US-09-169-425C-17
4	48	100.0	9	2	US-08-197-484-66
5	48	100.0	9	2	US-09-759-960-17
6	48	100.0	9	2	US-10-365-908-3
7	48	100.0	9	4	PCT-US95-02121-66
8	48	100.0	10	1	US-08-902-516-19
9	48	100.0	10	2	US-08-704-344-22
10	48	100.0	10	2	US-09-847-185-19
11	48	100.0	10	2	US-09-601-729-270
12	48	100.0	10	2	US-09-980-177A-19
13	48	100.0	18	2	US-08-075-541D-35
14	48	100.0	20	1	US-08-934-915-46
15	48	100.0	20	2	US-08-075-541D-43
16	48	100.0	20	2	US-08-075-541D-44
17	48	100.0	20	2	US-09-980-177A-69
18	48	100.0	23	2	US-09-980-523A-14
19	48	100.0	30	1	US-08-353-586-1
20	48	100.0	30	1	US-08-934-915-51
21	48	100.0	30	2	US-09-466-194-1
22	48	100.0	30	2	US-09-828-645-3
23	48	100.0	30	2	US-09-828-645-7
24	48	100.0	59	2	US-09-390-027-6
25	48	100.0	98	1	US-08-406-248-6
26	48	100.0	98	1	US-08-075-541D-42
27	48	100.0	98	2	US-09-382-616A-1

28	48	100.0	98	2	US-08-944-368A-4	Sequence 4, Appl
29	48	100.0	98	2	US-09-820-764-4	Sequence 4, Appl
30	48	100.0	98	2	US-09-613-303-8	Sequence 8, Appl
31	48	100.0	98	2	US-09-566-420-19	Sequence 19, Appl
32	48	100.0	98	2	US-09-986-118A-4	Sequence 4, Appl
33	48	100.0	98	2	US-09-728-466-1	Sequence 1, Appl
34	48	100.0	98	2	US-09-824-017-4	Sequence 4, Appl
35	48	100.0	98	2	US-10-267-311-8	Sequence 8, Appl
36	48	100.0	98	2	US-10-201-764-19	Sequence 19, Appl
37	48	100.0	98	2	US-09-637-766-3	Sequence 7, Appl
38	48	100.0	98	2	US-09-501-097A-7	Sequence 7, Appl
39	48	100.0	98	2	US-09-980-523A-12	Sequence 12, Appl
40	48	100.0	121	2	US-09-613-303-12	Sequence 12, Appl
41	48	100.0	121	2	US-10-267-311-12	Sequence 12, Appl
42	48	100.0	172	2	US-08-860-165-12	Sequence 12, Appl
43	48	100.0	172	2	US-09-359-382-12	Sequence 12, Appl
44	48	100.0	185	2	US-09-462-993-2	Sequence 3, Appl
45	48	100.0	198	2	US-09-613-303-35	Sequence 35, Appl
46	48	100.0	198	2	US-10-267-311-35	Sequence 35, Appl
47	48	100.0	220	2	US-09-485-885-1	Sequence 1, Appl
48	48	100.0	220	2	US-09-485-885-8	Sequence 8, Appl
49	48	100.0	239	2	US-09-485-885-12	Sequence 12, Appl
50	48	100.0	253	1	US-08-459-818-20	Sequence 20, Appl
51	48	100.0	253	1	US-08-889-666-20	Sequence 20, Appl
52	48	100.0	253	1	US-08-465-078-20	Sequence 20, Appl
53	48	100.0	253	1	US-08-725-776-20	Sequence 20, Appl
54	48	100.0	253	1	US-08-488-062-20	Sequence 20, Appl
55	48	100.0	263	1	US-08-117-083-9	Sequence 9, Appl
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59	48	100.0	287	2	US-09-501-097A-25	Sequence 25, Appl
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61	48	100.0	295	2	US-10-267-311-33	Sequence 33, Appl
62	48	100.0	324	2	US-09-613-303-25	Sequence 25, Appl
63	48	100.0	324	2	US-10-267-311-25	Sequence 25, Appl
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66	48	100.0	420	2	US-09-501-097A-22	Sequence 22, Appl
67	48	100.0	493	2	US-09-613-303-19	Sequence 19, Appl
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86	48	85.4	9	2	US-08-667-725B-62	Sequence 62, Appl
87	48	85.4	9	2	US-09-007-748-62	Sequence 62, Appl
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89	48	85.4	9	4	PCT-US95-02121-71	Sequence 71, Appl
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93	48	83.3	356	1	US-08-756-317-5	Sequence 5, Appl
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97	48	70.8	200	2	US-09-572-046-3	Sequence 3, Appl
98	48	70.8	200	2	US-09-972-137-3	Sequence 3, Appl
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102	34	70.8	577	1	US-08-756-317-13	Sequence 13, Appli	175	31	64.6	1180	2	US-09-459-715-8	Sequence 8, Appli
103	34	70.8	693	2	US-09-248-796A-15575	Sequence 13575, A	176	31	64.6	1212	1	US-08-072-574-10	Sequence 10, Appli
104	34	70.8	858	2	US-09-949-002-498	Sequence 498, App	177	31	64.6	1212	1	US-08-270-10-10	Sequence 10, Appli
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106	34	70.8	993	1	US-08-445-042-2	Sequence 2, Appli	179	31	64.6	1212	2	US-08-660-148-5	Sequence 10, Appli
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110	34	70.8	1039	2	US-09-949-002-258	Sequence 298, App	183	31	64.6	1223	2	US-09-071-035-236	Sequence 236, App
111	34	70.8	1039	6	5196511-2	Patent No. 5196511	184	31	64.6	1223	2	US-10-206-576-236	Sequence 236, App
112	33	68.8	292	2	US-09-902-540-11798	Sequence 11798, A	185	31	64.6	1301	2	US-09-071-035-238	Sequence 238, App
113	33	68.8	304	2	US-09-902-540-10922	Sequence 10922, A	186	31	64.6	1301	2	US-09-071-035-234	Sequence 234, App
114	33	68.8	359	2	US-10-171-374-2	Sequence 2, Appli	187	31	64.6	1301	2	US-09-071-035-242	Sequence 242, App
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119	33	68.8	552	2	US-09-902-775A-170	Sequence 170, App	192	31	64.6	1896	2	US-09-964-956-13	Sequence 13, Appli
120	33	68.8	552	2	US-09-906-700-170	Sequence 170, App	193	31	64.6	2188	2	US-09-328-352-7763	Sequence 7763, Ap
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122	33	68.8	552	2	US-09-904-920A-170	Sequence 170, App	195	30	62.5	60	2	US-09-248-796A-27132	Sequence 27132, A
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124	33	68.8	552	2	US-09-905-381A-170	Sequence 170, App	197	30	62.5	137	2	US-09-270-767-24597	Sequence 34597, A
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156	31	64.6	606	2	US-10-206-576-240	Sequence 240, App	229	30	62.5	467	2	US-08-840-767-50	Sequence 50, Appli
157	31	64.6	631	2	US-09-902-540-12106	Sequence 12106, A	230	30	62.5	467	2	US-09-096-776B-7	Sequence 7, Appli
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163	31	64.6	877	2	US-08-367-264-12	Sequence 12, Appli	236	30	62.5	476	2	US-09-252-991A-31416	Sequence 31416, A
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166	31	64.6	942	2	US-09-695-481-2	Sequence 2, Appli	239	30	62.5	477	2	US-08-840-767-2	Sequence 2, Appli
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249	30	62.5	505	2	US-10-135-689-2	Sequence 2, Appl1	322	29	60.4	226	1	US-08-347-594A-4	Sequence 4, Appl1
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251	30	62.5	505	2	US-10-690-617-2	Sequence 2, Appl1	324	29	60.4	247	1	US-08-984-186-4	Sequence 4, Appl1
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259	30	62.5	559	2	US-10-266-787-1	Sequence 1, Appl1	332	29	60.4	271	2	US-09-270-767-44632	Sequence 44632, A
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262	30	62.5	559	2	US-10-914-242-1	Sequence 1, Appl1	335	29	60.4	303	2	US-09-828-553A-20	Sequence 20, Appl1
263	30	62.5	559	2	US-08-756-317-8	Sequence 8, Appl1	336	29	60.4	304	2	US-08-506-296B-57	Sequence 57, Appl1
264	30	62.5	560	1	US-09-672-749-4	Sequence 4, Appl1	337	29	60.4	311	2	US-08-828-553A-86	Sequence 86, Appl1
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269	30	62.5	631	2	US-08-689-730-17	Sequence 17, Appl1	342	29	60.4	353	2	US-09-543-681A-7486	Sequence 2, Appl1
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272	30	62.5	660	2	US-09-391-104-19	Sequence 19, Appl1	345	29	60.4	425	1	US-09-066-776B-8	Sequence 8, Appl1
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279	30	62.5	676	2	US-09-771-161A-209	Sequence 209, App	352	29	60.4	427	2	US-09-538-092-116	Sequence 18, Appl1
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282	30	62.5	714	2	US-10-087-402-19	Sequence 19, Appl1	355	29	60.4	436	2	US-09-586-305A-12	Sequence 12, Appl1
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284	30	62.5	718	2	US-09-447-453-2	Sequence 2, Appl1	357	29	60.4	438	2	US-09-586-305A-14	Sequence 14, Appl1
285	30	62.5	718	2	US-09-417-197-75	Sequence 75, Appl1	358	29	60.4	438	2	US-09-586-305A-15	Sequence 15, Appl1
286	30	62.5	718	2	US-10-117-846-2	Sequence 2, Appl1	359	29	60.4	438	2	US-09-586-305A-16	Sequence 16, Appl1
287	30	62.5	719	2	US-09-417-197-51	Sequence 51, Appl1	360	29	60.4	438	2	US-09-586-305A-17	Sequence 17, Appl1
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289	30	62.5	857	2	US-09-252-991A-31764	Sequence 31764, A	362	29	60.4	438	2	US-09-586-305A-20	Sequence 20, Appl1
290	30	62.5	901	2	US-09-538-092-826	Sequence 826, App	363	29	60.4	442	2	US-08-506-296B-70	Sequence 70, Appl1
291	30	62.5	952	2	US-10-216-556A-2	Sequence 2, Appl1	364	29	60.4	451	2	US-10-104-047-2367	Sequence 2367, App
292	30	62.5	956	2	US-09-962-955D-40	Sequence 40, Appl1	365	29	60.4	461	2	US-10-104-047-2367	Sequence 2, Appl1
293	30	62.5	1216	2	US-09-712-363-177	Sequence 177, App	366	29	60.4	466	1	US-07-923-739-2	Sequence 2, Appl1
294	30	62.5	1358	2	US-09-949-016-6803	Sequence 6803, Ap	367	29	60.4	467	2	US-09-087-134-2	Sequence 2, Appl1
295	30	62.5	1606	2	US-09-949-016-7371	Sequence 7371, Ap	368	29	60.4	467	2	US-08-580-031A-15	Sequence 29454, A
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297	30	62.5	1635	2	US-10-037-417-47	Sequence 47, Appl1	370	29	60.4	505	2	US-09-489-039A-14257	Sequence 12885, A
298	30	62.5	1635	2	US-10-037-182-4	Sequence 4, Appl1	371	29	60.4	511	2	US-09-489-039A-12885	Sequence 69, Appl1
299	30	62.5	5215	2	US-09-105-537-2	Sequence 2, Appl1	372	29	60.4	523	2	US-08-506-296B-69	Sequence 2, Appl1
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301	29	60.4	77	1	US-09-134-001C-3500	Sequence 3500, Ap	374	29	60.4	561	5	US-09-640-305-2	Sequence 2045, Ap
302	29	60.4	84	2	US-09-270-767-33781	Sequence 33781, A	375	29	60.4	620	2	US-10-104-047-2045	Sequence 4944, Ap
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307	29	60.4	95	2	US-09-605-703B-1630	Sequence 1630, Ap	380	29	60.4	756	2	US-09-711-164-426	Sequence 7764, Ap
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312	29	60.4	155	2	US-09-902-540-9947	Sequence 9947, Ap	385	29	60.4	919	2	US-08-377-039-2	Sequence 2, Appl1
313	29	60.4	158	2	US-09-198-452A-383	Sequence 383, App	386	29	60.4	921	1	US-08-178-019-2	Sequence 14, Appl1
314	29	60.4	158	2	US-09-270-767-33197	Sequence 33197, A	387	29	60.4	921	1	US-07-718-575-14	Sequence 14, Appl1
315	29	60.4	158	2	US-09-270-767-48414	Sequence 48414, A	388	29	60.4	921	1	US-08-481-206-14	Sequence 14, Appl1
316	29	60.4	196	2	US-09-540-236-3127	Sequence 3127, Ap	389	29	60.4	921	1	US-08-486-269A-14	Sequence 19, Appl1
317	29	60.4	204	2	US-08-506-296B-58	Sequence 58, Appl1	390	29	60.4	1075	1	US-08-993-228-19	Sequence 19, Appl1
318	29	60.4	220	2	US-08-463-682-24	Sequence 24, Appl1	391	29	60.4	1253	2	US-08-506-296B-14	Sequence 14, Appl1
319	29	60.4	224	1	US-08-360-673-7	Sequence 7, Appl1	392	29	60.4	1253	2		

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396	29	60.4	2777	2	US-10-320-587-4	Sequence 4, Appl1	469	28	58.3	379	4	PCT-US93-08062-5	Sequence 5, Appl1
397	29	60.4	2813	2	US-08-896-449A-2	Sequence 2, Appl1	470	28	58.3	379	4	PCT-US93-10442-8	Sequence 8, Appl1
398	29	60.4	2813	2	US-09-132-652-2	Sequence 2, Appl1	471	28	58.3	392	2	US-09-491-577-90	Sequence 90, Appl1
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401	29	60.4	2813	2	US-09-662-478C-2	Sequence 2, Appl1	474	28	58.3	403	2	US-09-527-431-83	Sequence 83, Appl1
402	28	55.3	21	2	US-09-367-309A-5	Sequence 3, Appl1	475	28	58.3	403	2	US-09-446-861-83	Sequence 83, Appl1
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409	28	58.3	86	2	US-09-381-122A-24	Sequence 24, Appl1	482	28	58.3	455	2	US-09-240-639-10	Sequence 10, Appl1
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411	28	58.3	102	1	US-08-710-749-21	Sequence 21, Appl1	484	28	58.3	455	2	US-09-905-744B-10	Sequence 10, Appl1
412	28	58.3	102	2	US-09-147-875A-18	Sequence 18, Appl1	485	28	58.3	455	2	US-10-107-660-10	Sequence 10, Appl1
413	28	58.3	104	2	US-09-205-258-434	Sequence 434, App	486	28	58.3	455	2	US-10-107-576-10	Sequence 10, Appl1
414	28	58.3	104	2	US-10-004-860-434	Sequence 434, App	487	28	58.3	455	2	US-09-905-732B-10	Sequence 10, Appl1
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419	28	58.3	162	2	US-09-107-433-3095	Sequence 3095, App	492	28	58.3	461	1	US-08-466-961A-24	Sequence 24, Appl1
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427	28	58.3	198	2	US-09-978-730-25	Sequence 25, Appl1	500	28	58.3	511	2	US-09-633-328B-4	Sequence 4, Appl1
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449	28	58.3	327	2	US-09-107-433-4644	Sequence 4644, App	522	28	58.3	688	2	US-09-298-404-20	Sequence 20, Appl1
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453	28	58.3	362	2	US-09-479-040-11	Sequence 11, Appl1	526	28	58.3	699	2	US-09-489-039A-8133	Sequence 8133, App
454	28	58.3	370	2	US-08-857-076-107	Sequence 107, App	527	28	58.3	703	2	US-09-367-206-5	Sequence 5, Appl1
455	28	58.3	370	2	US-09-205-658-107	Sequence 107, App	528	28	58.3	703	2	US-09-298-404-5	Sequence 5, Appl1
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543	28	58.3	1060	2	US-09-902-540-9866	Sequence 9866, Ap	616	27	56.2	129	2	US-09-830-230A-37	Sequence 37, Appl
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546	28	58.3	1210	1	US-08-475-035-4	Sequence 4, Appli	619	27	56.2	134	2	US-09-045-764A-8	Sequence 8, Appli
547	28	58.3	1210	1	US-09-715-249-2	Sequence 2, Appli	620	27	56.2	134	2	US-09-045-764A-9	Sequence 9, Appli
548	28	58.3	1210	2	US-09-723-307-67	Sequence 67, Appl	621	27	56.2	135	2	US-09-045-764A-10	Sequence 10, Appl
549	28	58.3	1240	2	US-09-538-093-12	Sequence 12, Appl	622	27	56.2	135	2	US-09-328-352-5883	Sequence 5883, Ap
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553	28	58.3	1367	1	US-08-625-819-2	Sequence 2, Appli	626	27	56.2	146	2	US-09-345-262B-73	Sequence 73, Appl
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557	28	58.3	1377	2	US-09-949-001-21	Sequence 21, Appl	630	27	56.2	148	1	US-08-256-077-2	Sequence 2, Appli
558	28	58.3	1392	2	US-09-561-818A-4	Sequence 4, Appli	631	27	56.2	148	2	US-09-949-016-6183	Sequence 6183, Ap
559	28	58.3	1800	2	US-09-561-818A-8	Sequence 8, Appli	632	27	56.2	155	2	US-09-172-952-25	Sequence 25, Appl
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561	28	58.3	1824	2	US-09-561-818A-6	Sequence 6, Appli	634	27	56.2	166	2	US-09-328-352-5250	Sequence 5250, Ap
562	28	58.3	1826	2	US-09-198-452A-113	Sequence 113, App	635	27	56.2	167	2	US-09-134-001C-2867	Sequence 2867, Ap
563	28	58.3	1837	2	US-09-438-185A-98	Sequence 98, Appl	636	27	56.2	168	2	US-09-134-001C-2867	Sequence 4319, Ap
564	28	58.3	3340	2	US-09-252-991A-23568	Sequence 23568, A	637	27	56.2	170	2	US-09-949-016-9127	Sequence 9127, Ap
565	28	58.3	3472	2	US-09-408-020-4	Sequence 4, Appli	638	27	56.2	180	2	US-09-214-307A-2	Sequence 2, Appli
566	28	58.3	3929	2	US-09-693-205A-2	Sequence 2, Appli	639	27	56.2	180	2	US-10-054-968-2	Sequence 2, Appli
567	28	58.3	3929	2	US-09-693-205A-16	Sequence 16, Appl	640	27	56.2	183	2	US-09-248-796A-18369	Sequence 18369, A
568	28	58.3	3930	2	US-09-693-205A-4	Sequence 4, Appli	641	27	56.2	184	2	US-09-605-703B-2922	Sequence 2922, Ap
569	28	58.3	4861	2	US-09-919-497-70	Sequence 70, Appl	642	27	56.2	190	2	US-09-270-767-33250	Sequence 33250, A
570	28	58.3	5032	2	US-09-538-092-979	Sequence 979, App	643	27	56.2	192	2	US-10-104-047-2762	Sequence 2762, Ap
571	28	58.3	5037	2	US-09-424-783-4	Sequence 4, Appli	644	27	56.2	193	2	US-09-134-001C-4171	Sequence 4171, Ap
572	27.5	57.3	500	2	US-09-949-016-9623	Sequence 9623, Ap	645	27	56.2	200	2	US-09-270-767-42004	Sequence 42004, A
573	27.5	57.3	582	2	US-08-906-865-3	Sequence 3, Appli	646	27	56.2	202	2	US-09-710-279-2326	Sequence 2326, Ap
574	27.5	57.3	582	2	US-09-129-668-3	Sequence 3, Appli	647	27	56.2	205	2	US-09-248-796A-19681	Sequence 19681, A
575	27	56.2	10	2	US-09-365-908-57	Sequence 57, Appl	648	27	56.2	210	2	US-09-248-796A-22805	Sequence 22805, A
576	27	56.2	19	2	US-09-000-094-50	Sequence 50, Appl	649	27	56.2	212	2	US-09-248-796A-26988	Sequence 26988, A
577	27	56.2	19	2	US-10-011-749-50	Sequence 50, Appl	650	27	56.2	215	2	US-09-248-796A-27992	Sequence 27992, A
578	27	56.2	21	1	US-08-484-635-101	Sequence 101, App	651	27	56.2	218	2	US-09-328-352-7829	Sequence 7829, Ap
579	27	56.2	21	1	US-08-484-631-101	Sequence 101, App	652	27	56.2	222	2	US-09-248-796A-25885	Sequence 25885, A
580	27	56.2	21	1	US-08-827-570-101	Sequence 98, Appl	653	27	56.2	225	1	US-09-360-673-8	Sequence 8, Appli
581	27	56.2	22	1	US-08-484-635-98	Sequence 98, Appl	654	27	56.2	225	5	US-09-640-305-8	Sequence 3053, A
582	27	56.2	22	1	US-08-484-631-98	Sequence 98, Appl	655	27	56.2	227	2	US-09-328-352-7842	Sequence 7842, Ap
583	27	56.2	22	1	US-08-827-570-98	Sequence 98, Appl	656	27	56.2	227	2	US-09-252-991A-30133	Sequence 30133, A
584	27	56.2	33	2	US-09-370-767-57260	Sequence 57260, A	657	27	56.2	235	2	US-09-134-001C-3026	Sequence 3026, Ap
585	27	56.2	46	1	US-08-466-127-7	Sequence 7, Appli	658	27	56.2	236	2	US-09-248-796A-16807	Sequence 16807, A
586	27	56.2	69	2	US-09-621-976-6824	Sequence 6824, Ap	659	27	56.2	243	2	US-09-543-681A-4208	Sequence 4208, Ap
587	27	56.2	75	2	US-09-513-999C-7121	Sequence 7121, Ap	660	27	56.2	248	1	US-08-805-965-5	Sequence 5, Appli
588	27	56.2	76	2	US-09-489-039A-9194	Sequence 9194, Ap	661	27	56.2	248	2	US-09-270-767-59167	Sequence 59167, A
589	27	56.2	83	2	US-09-513-999C-7762	Sequence 7762, Ap	662	27	56.2	248	2	US-09-758-755-75	Sequence 75, Appl
590	27	56.2	86	2	US-09-448-796A-22689	Sequence 22689, A	663	27	56.2	252	2	US-09-548-472B-13	Sequence 13, Appl
591	27	56.2	90	2	US-09-438-185A-733	Sequence 733, App	664	27	56.2	257	2	US-09-438-185A-828	Sequence 828, Appl
592	27	56.2	91	2	US-09-107-532A-3719	Sequence 3719, Ap	665	27	56.2	258	2	US-09-548-472B-12	Sequence 12, Appl
593	27	56.2	93	2	US-09-489-039A-11103	Sequence 11103, A	666	27	56.2	260	1	US-07-857-224B-22	Sequence 22, Appl
594	27	56.2	98	2	US-09-270-767-36028	Sequence 36028, A	667	27	56.2	261	1	US-07-857-224B-22	Sequence 22, Appl
595	27	56.2	98	2	US-09-270-767-51245	Sequence 51245, A	668	27	56.2	262	1	US-08-805-965-1	Sequence 1, Appli
596	27	56.2	98	2	US-09-902-540-11819	Sequence 11819, A	669	27	56.2	263	2	US-09-949-016-8353	Sequence 8353, Ap
597	27	56.2	108	2	US-09-830-330A-38	Sequence 38, Appl	670	27	56.2	265	2	US-09-489-039A-8812	Sequence 8812, Ap
598	27	56.2	110	2	US-09-902-540-12369	Sequence 12369, A	671	27	56.2	271	2	US-09-270-767-32607	Sequence 32607, A
599	27	56.2	113	1	US-08-256-568B-92	Sequence 92, Appl	672	27	56.2	271	2	US-09-270-767-47824	Sequence 47824, A
600	27	56.2	113	2	US-09-038-3698-92	Sequence 92, Appl	673	27	56.2	273	2	US-09-134-000C-4763	Sequence 4763, Ap
601	27	56.2	113	2	US-09-378-900A-92	Sequence 92, Appl	674	27	56.2	274	2	US-09-858-664A-14	Sequence 14, Appl
602	27	56.2	113	2	US-09-899-044-92	Sequence 92, Appl	675	27	56.2	274	2	US-09-543-681A-5366	Sequence 5366, Ap
603	27	56.2	113	2	US-08-878-281A-160	Sequence 160, App	676	27	56.2	274	2	US-09-543-681A-5366	Sequence 8, Appli
604	27	56.2	113	2	US-09-899-302-92	Sequence 92, Appl	677	27	56.2	274	2	US-10-274-978-15	Sequence 9, Appli
605	27	56.2	113	2	US-09-899-302-92	Sequence 92, Appl	678	27	56.2	274	2	US-10-697-263-15	Sequence 15, Appl
606	27	56.2	119	1	US-08-256-077-4	Sequence 4, Appli	679	27	56.2	284	2	US-09-107-532A-6030	Sequence 6030, Ap
607	27	56.2	119	1	US-08-466-127-4	Sequence 4, Appli	680	27	56.2	297	2	US-09-198-452A-838	Sequence 838, App
608	27	56.2	119	2	US-09-045-764A-3	Sequence 3, Appli	681	27	56.2	298	2	US-09-858-664A-17	Sequence 17, Appl
609	27	56.2	124	2	US-09-134-000C-5416	Sequence 5416, Ap	682	27	56.2	298	2	US-10-274-978-18	Sequence 18, Appl
610	27	56.2	127	2	US-08-836-561-92	Sequence 92, Appl	683	27	56.2	298	2	US-10-697-263-18	Sequence 18, Appl
611	27	56.2	127	2	US-08-836-561-98	Sequence 98, Appl	684	27	56.2	301	2	US-09-248-796A-19858	Sequence 19858, A

685	27	56.2	304	2	US-09-438-185A-790	Sequence 790, App	758	27	56.2	511	2	US-08-889-841B-41	Sequence 41, Appl
686	27	56.2	315	2	US-09-248-796A-20438	Sequence 20438, A	759	27	56.2	511	2	US-09-492-739-1	Sequence 1, Appl
687	27	56.2	320	2	US-09-252-991A-30676	Sequence 30676, A	760	27	56.2	511	2	US-09-419-362-41	Sequence 41, Appl
688	27	56.2	328	2	US-09-797-908-6	Sequence 6, Appl	761	27	56.2	511	2	US-09-966-931A-1	Sequence 1, Appl
689	27	56.2	330	2	US-09-710-279-1460	Sequence 1460, Ap	762	27	56.2	519	2	US-08-997-445D-2	Sequence 2, Appl
690	27	56.2	329	2	US-09-252-991A-18388	Sequence 18388, A	763	27	56.2	525	2	US-09-248-796A-19906	Sequence 19906, A
691	27	56.2	331	2	US-09-453-956-3	Sequence 3, Appl	764	27	56.2	527	2	US-09-543-681A-6795	Sequence 6795, Ap
692	27	56.2	331	2	US-10-223-371B-3	Sequence 3, Appl	765	27	56.2	529	2	US-09-252-991A-23395	Sequence 23395, A
693	27	56.2	333	2	US-09-482-273-131	Sequence 131, App	766	27	56.2	529	2	US-09-801-042-2	Sequence 2, Appl
694	27	56.2	337	1	US-08-440-856A-3	Sequence 3, Appl	767	27	56.2	531	2	US-09-949-016-7990	Sequence 7990, Ap
695	27	56.2	340	2	US-09-270-767-45097	Sequence 45097, A	768	27	56.2	533	2	US-09-107-532A-4539	Sequence 4539, Ap
696	27	56.2	344	2	US-09-252-991A-31357	Sequence 31357, A	769	27	56.2	534	2	US-09-270-767-45211	Sequence 45211, A
697	27	56.2	357	2	US-09-270-767-45423	Sequence 45423, A	770	27	56.2	537	2	US-09-110-959A-4	Sequence 4, Appl
698	27	56.2	362	2	US-09-328-352-8231	Sequence 8231, Ap	771	27	56.2	539	2	US-10-082-894-3	Sequence 3, Appl
699	27	56.2	363	2	US-09-902-540-15611	Sequence 15611, A	772	27	56.2	543	2	US-09-107-532A-7235	Sequence 7235, Ap
700	27	56.2	366	2	US-09-107-443-5158	Sequence 5158, Ap	773	27	56.2	546	2	US-09-252-991A-23291	Sequence 23291, A
701	27	55.2	375	2	US-09-000-094-22	Sequence 22, Appl	774	27	56.2	548	2	US-09-207-388-23	Sequence 23, Appl
702	27	56.2	375	2	US-10-011-749-22	Sequence 22, Appl	775	27	56.2	558	2	US-09-902-540-11142	Sequence 11142, A
703	27	56.2	378	2	US-09-270-767-33028	Sequence 33028, A	776	27	56.2	559	1	US-08-756-317-7	Sequence 7, Appl
704	27	56.2	378	2	US-09-270-767-47245	Sequence 47245, A	777	27	56.2	559	1	US-09-052-339-1	Sequence 1, Appl
705	27	56.2	387	2	US-09-248-796A-18228	Sequence 18228, A	778	27	56.2	559	2	US-09-385-742B-1	Sequence 1, Appl
706	27	56.2	388	2	US-10-138-701-57	Sequence 57, Appl	779	27	56.2	559	2	US-09-989-786-1	Sequence 1, Appl
707	27	56.2	388	2	US-09-940-921B-7	Sequence 7, Appl	780	27	56.2	559	2	US-10-253-509-1	Sequence 1, Appl
708	27	56.2	390	2	US-09-543-681A-7466	Sequence 7466, Ap	781	27	56.2	559	2	US-10-133-405-1	Sequence 1, Appl
709	27	56.2	395	2	US-09-134-000C-5115	Sequence 5115, Ap	782	27	56.2	559	2	US-09-807-123-2	Sequence 2, Appl
710	27	56.2	398	2	US-09-248-796A-15060	Sequence 15060, A	783	27	56.2	559	2	US-10-133-402-1	Sequence 1, Appl
711	27	56.2	398	2	US-09-940-921B-9	Sequence 9, Appl	784	27	56.2	559	2	US-10-131-540-1	Sequence 1, Appl
712	27	56.2	399	2	US-09-328-352-7632	Sequence 7632, Ap	785	27	56.2	565	2	US-09-489-039A-10676	Sequence 10676, A
713	27	56.2	408	2	US-09-489-039A-12510	Sequence 12510, A	786	27	56.2	567	2	US-09-347-878-42	Sequence 42, Appl
714	27	56.2	408	2	US-09-270-767-42461	Sequence 42461, A	787	27	56.2	568	2	US-09-207-388-22	Sequence 22, Appl
715	27	56.2	410	2	US-10-272-490-24	Sequence 24, Appl	788	27	56.2	568	2	US-09-207-388-24	Sequence 24, Appl
716	27	56.2	414	2	US-09-858-664A-13	Sequence 13, Appl	789	27	56.2	575	2	US-09-927-267-1	Sequence 1, Appl
717	27	56.2	414	2	US-10-274-978-14	Sequence 14, Appl	790	27	56.2	575	2	US-09-927-267-16	Sequence 16, Appl
718	27	56.2	414	2	US-10-697-263-14	Sequence 14, Appl	791	27	56.2	577	2	US-09-248-796A-20486	Sequence 20486, A
719	27	56.2	415	2	US-09-252-991A-33056	Sequence 33056, A	792	27	56.2	582	2	US-09-252-991A-32678	Sequence 32678, A
720	27	56.2	415	2	US-09-359-268A-25	Sequence 25, Appl	793	27	56.2	587	2	US-09-020-465-2	Sequence 2, Appl
721	27	56.2	417	2	US-10-245-227D-14	Sequence 14, Appl	794	27	56.2	589	2	US-09-270-767-45378	Sequence 45378, A
722	27	56.2	425	2	US-09-902-540-15834	Sequence 15834, A	795	27	56.2	592	2	US-09-408-020-80	Sequence 80, Appl
723	27	56.2	425	2	US-10-245-227D-12	Sequence 12, Appl	796	27	56.2	596	2	US-09-797-039-8	Sequence 8, Appl
724	27	56.2	428	2	US-09-270-767-60705	Sequence 60705, A	797	27	56.2	600	2	US-08-537-361B-9	Sequence 9, Appl
725	27	56.2	430	2	US-10-245-227D-1	Sequence 1, Appl	798	27	56.2	601	1	US-08-606-288-7	Sequence 7, Appl
726	27	56.2	439	2	US-09-489-039A-10095	Sequence 10095, A	799	27	56.2	601	1	US-08-606-288-10	Sequence 10, Appl
727	27	56.2	443	2	US-09-902-540-16800	Sequence 16800, A	800	27	56.2	601	2	US-09-347-483-7	Sequence 7, Appl
728	27	56.2	449	2	US-10-245-227D-89	Sequence 89, Appl	801	27	56.2	601	2	US-09-347-483-10	Sequence 10, Appl
729	27	56.2	449	2	US-10-245-227D-91	Sequence 91, Appl	802	27	56.2	602	2	US-08-990-470A-3	Sequence 3, Appl
730	27	56.2	449	2	US-10-245-227D-93	Sequence 93, Appl	803	27	56.2	602	2	US-08-817-707-9	Sequence 9, Appl
731	27	56.2	449	2	US-10-245-227D-95	Sequence 95, Appl	804	27	56.2	615	2	US-09-949-016-11320	Sequence 11320, A
732	27	56.2	452	2	US-10-245-227D-97	Sequence 97, Appl	805	27	56.2	623	2	US-09-270-767-45228	Sequence 45228, A
733	27	56.2	452	2	US-09-248-796A-16171	Sequence 16171, A	806	27	56.2	632	2	US-09-354-129-8	Sequence 8, Appl
734	27	56.2	456	1	US-08-624-125-20	Sequence 20, Appl	807	27	56.2	632	2	US-09-504-357-8	Sequence 8, Appl
735	27	56.2	456	2	US-08-937-155-20	Sequence 20, Appl	808	27	56.2	634	1	US-09-020-466-2	Sequence 2, Appl
736	27	56.2	458	2	US-09-270-767-43768	Sequence 43768, A	809	27	56.2	634	2	US-09-192-659-2	Sequence 2, Appl
737	27	56.2	460	2	US-09-270-767-60881	Sequence 60881, A	810	27	56.2	635	2	US-09-538-092-226	Sequence 226, App
738	27	56.2	465	2	US-09-000-094-24	Sequence 24, Appl	811	27	56.2	637	2	US-09-489-039A-13568	Sequence 13268, A
739	27	56.2	465	2	US-10-011-749-24	Sequence 24, Appl	812	27	56.2	646	2	US-09-489-039A-12750	Sequence 12750, A
740	27	56.2	475	2	US-09-902-540-14917	Sequence 14917, A	813	27	56.2	649	2	US-09-902-540-11282	Sequence 11282, A
741	27	56.2	477	2	US-09-134-000C-4388	Sequence 4388, Ap	814	27	56.2	650	2	US-09-252-991A-24993	Sequence 24093, A
742	27	56.2	481	2	US-09-248-796A-19010	Sequence 19010, A	815	27	56.2	650	2	US-09-467-558B-40	Sequence 40, App
743	27	56.2	485	2	US-09-489-039A-10167	Sequence 10167, A	816	27	56.2	651	2	US-09-248-796A-18051	Sequence 18051, A
744	27	56.2	488	2	US-09-902-540-15686	Sequence 15686, A	817	27	56.2	666	2	US-09-248-796A-14824	Sequence 14824, A
745	27	56.2	498	2	US-09-323-998E-57	Sequence 57, Appl	818	27	56.2	666	2	US-09-270-767-62249	Sequence 62249, A
746	27	56.2	500	2	US-09-323-998E-58	Sequence 58, Appl	819	27	56.2	682	2	US-10-104-047-2390	Sequence 2390, Ap
747	27	56.2	500	2	US-09-323-998E-59	Sequence 59, Appl	820	27	56.2	708	2	US-09-107-532A-6047	Sequence 6047, Ap
748	27	56.2	501	1	US-08-448-603A-2	Sequence 2, Appl	821	27	56.2	721	2	US-09-270-767-46645	Sequence 46645, A
749	27	56.2	501	2	US-09-134-075-2	Sequence 2, Appl	822	27	56.2	735	2	US-09-902-540-14243	Sequence 14243, A
750	27	56.2	501	2	US-09-492-739-2	Sequence 2, Appl	823	27	56.2	752	2	US-09-248-796A-15445	Sequence 15445, A
751	27	56.2	501	2	US-09-966-931A-2	Sequence 2, Appl	824	27	56.2	758	2	US-09-198-452A-996	Sequence 996, App
752	27	56.2	502	2	US-09-323-998E-56	Sequence 56, Appl	825	27	56.2	758	1	US-08-677-862-2	Sequence 2, Appl
753	27	56.2	508	2	US-09-858-664A-18	Sequence 18, Appl	826	27	56.2	763	1	US-08-677-862-2	Sequence 2, Appl
754	27	56.2	508	2	US-10-274-978-19	Sequence 19, Appl	827	27	56.2	763	1	US-09-252-571-2	Sequence 2, Appl
755	27	56.2	508	2	US-10-697-263-19	Sequence 19, Appl	828	27	56.2	763	1	US-09-434-065-2	Sequence 4, Appl
756	27	56.2	511	1	US-08-448-603A-1	Sequence 1, Appl	829	27	56.2	763	2	US-08-789-275-4	Sequence 4, Appl
757	27	56.2	511	2	US-09-134-075-1	Sequence 1, Appl	830	27	56.2	763	2	US-08-789-275-5	Sequence 5, Appl

831	27	56.2	770	2	US-09-489-039A-7872	Sequence 7872, Ap	904	27	56.2	4928	2	US-09-036-987A-5	Sequence 5, Appl1
832	27	56.2	775	2	US-09-991-181-336	Sequence 326, App	905	27	56.2	4928	2	US-09-370-700-5	Sequence 5, Appl1
833	27	56.2	775	2	US-09-990-444-336	Sequence 326, App	906	27	56.2	4928	2	US-09-603-207-5	Sequence 5, Appl1
834	27	56.2	775	2	US-09-997-333-336	Sequence 326, App	907	27	56.2	4928	2	US-09-335-409-5	Sequence 5, Appl1
835	27	56.2	775	2	US-09-992-598-336	Sequence 326, App	908	27	56.2	4928	2	US-09-568-102-5	Sequence 5, Appl1
836	27	56.2	792	2	US-09-902-540-1813	Sequence 12, Appl	909	27	56.2	4928	2	US-09-567-969-5	Sequence 5, Appl1
837	27	56.2	798	2	US-09-861-451A-12	Sequence 12, Appl	910	27	56.2	4928	2	US-09-568-480-5	Sequence 5, Appl1
838	27	56.2	799	2	US-09-165-396-4	Sequence 4, Appl1	911	27	56.2	4928	2	US-09-568-480-5	Sequence 5, Appl1
839	27	56.2	802	2	US-09-252-991A-17830	Sequence 17830, A	912	27	56.2	4928	2	US-09-567-899-5	Sequence 5, Appl1
840	27	56.2	837	2	US-09-583-110-3152	Sequence 3152, Ap	913	27	56.2	4928	2	US-10-014-717-5	Sequence 5, Appl1
841	27	56.2	851	2	US-09-107-433-3160	Sequence 3160, Ap	914	27	56.2	4928	2	US-10-014-717-5	Sequence 5, Appl1
842	27	56.2	853	2	US-09-489-039A-11009	Sequence 11009, A	915	27	56.2	4928	2	US-09-489-039A-10777	Sequence 10777, A
843	27	56.2	877	1	US-08-907-166-8	Sequence 8, Appl1	916	27	56.2	4928	2	US-09-605-703B-1584	Sequence 1584, A
844	27	56.2	877	1	US-09-391-340-8	Sequence 8, Appl1	917	27	56.2	4928	2	US-08-787-547-105	Sequence 105, App
845	27	56.2	884	1	US-08-066-167-2	Sequence 2, Appl1	918	27	56.2	4928	2	US-08-197-484-69	Sequence 69, Appl
846	27	56.2	908	1	US-08-487-890A-94	Sequence 94, Appl1	919	27	56.2	4928	2	US-10-365-908-6	Sequence 26, Appl
847	27	56.2	908	1	US-08-478-435-94	Sequence 94, Appl	920	27	56.2	4928	2	US-10-365-908-6	Sequence 26, Appl
848	27	56.2	908	1	US-08-337-483-94	Sequence 94, Appl1	921	27	56.2	4928	2	PCT-US95-02121-69	Sequence 21, Appl
849	27	56.2	908	1	US-08-478-373-94	Sequence 94, Appl1	922	27	56.2	4928	2	US-08-594-447-21	Sequence 20, Appl
850	27	56.2	908	2	US-08-474-671-94	Sequence 94, Appl1	923	27	56.2	4928	2	US-08-594-447-21	Sequence 20, Appl
851	27	56.2	908	2	US-08-483-577A-94	Sequence 94, Appl1	924	27	56.2	4928	2	US-08-541-964-20	Sequence 35, Appl
852	27	56.2	908	2	US-08-448-194-4	Sequence 4, Appl1	925	27	56.2	4928	2	US-07-916-235A-4	Sequence 49, Appl
853	27	56.2	908	2	US-08-613-009A-16	Sequence 16, Appl	926	27	56.2	4928	2	US-07-916-235A-4	Sequence 49, Appl
854	27	56.2	908	2	US-08-897-438-94	Sequence 94, Appl	927	27	56.2	4928	2	US-08-484-635-159	Sequence 159, App
855	27	56.2	908	2	US-08-637-654-94	Sequence 4, Appl1	928	27	56.2	4928	2	US-08-484-631-159	Sequence 159, App
856	27	56.2	908	2	US-08-637-921-4	Sequence 94, Appl1	929	27	56.2	4928	2	US-08-827-570-159	Sequence 159, App
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858	27	56.2	908	2	US-08-778-570B-22	Sequence 22, Appl	931	27	56.2	4928	2	US-08-466-127-9	Sequence 9, Appl1
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863	27	56.2	964	2	US-09-962-955D-39	Sequence 39, Appl	936	27	56.2	4928	2	US-09-248-796A-66435	Sequence 26335, A
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868	27	56.2	1066	2	US-09-252-991A-31530	Sequence 1074, Ap	941	27	56.2	4928	2	US-09-270-767-40735	Sequence 40735, A
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870	27	56.2	1194	2	US-10-191-029-10	Sequence 10, Appl	943	27	56.2	4928	2	US-09-107-433-2884	Sequence 2884, Ap
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873	27	56.2	1216	2	US-09-769-787-12	Sequence 12, Appl	946	27	56.2	4928	2	US-08-446-335-5	Sequence 335, Appl
874	27	56.2	1224	2	US-09-107-433-4347	Sequence 4347, Ap	947	27	56.2	4928	2	US-09-270-767-38147	Sequence 38147, A
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879	27	56.2	1280	2	US-10-192-381-18	Sequence 2, Appl1	952	27	56.2	4928	2	US-08-886-863-9	Sequence 9, Appl1
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882	27	56.2	1327	2	US-09-972-115A-8	Sequence 2, Appl1	955	27	56.2	4928	2	US-09-513-999C-7079	Sequence 7079, Ap
883	27	56.2	1337	2	US-10-098-108-2	Sequence 18, Appl	956	27	56.2	4928	2	US-09-270-767-36204	Sequence 36204, A
884	27	56.2	1353	2	US-08-964-641B-18	Sequence 18, Appl	957	27	56.2	4928	2	US-09-270-767-43790	Sequence 43790, A
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886	27	56.2	1404	2	US-09-862-027-24	Sequence 24, Appl	959	27	56.2	4928	2	US-09-134-001C-3319	Sequence 3319, Ap
887	27	56.2	1405	2	US-09-248-796A-18103	Sequence 18103, A	960	27	56.2	4928	2	US-09-107-532A-4251	Sequence 4251, Ap
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889	27	56.2	1587	2	US-10-011-749-46	Sequence 46, Appl	962	27	56.2	4928	2	US-08-678-369-6	Sequence 7, Appl1
890	27	56.2	1587	2	PCT-US93-07261-11	Sequence 11, Appl	963	27	56.2	4928	2	US-08-678-369-6	Sequence 6, Appl1
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893	27	56.2	1911	1	US-09-949-016-10503	Sequence 10503, A	966	27	56.2	4928	2	US-08-678-369-6	Sequence 6, Appl1
894	27	56.2	1911	1	US-08-348-006B-5	Sequence 5, Appl1	967	27	56.2	4928	2	US-08-678-369-6	Sequence 6, Appl1
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901	27	56.2	3413	2	US-10-042-665A-8	Sequence 8, Appl1	974	27	56.2	4928	2	US-09-183-861-86	Sequence 86, Appl1
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903	27	56.2	3969	2	US-08-061-376-5	Sequence 5, Appl1	976	27	56.2	4928	2	US-09-551-974A-86	Sequence 86, Appl1

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981 26 54.2 156 2 US-09-771-161A-104 Sequence 104, Appl
982 26 54.2 161 2 US-09-543-681A-5258 Sequence 5258, Ap
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984 26 54.2 168 2 US-10-104-047-2698 Sequence 2698, Ap
985 26 54.2 171 2 US-09-252-991A-27140 Sequence 27140, A
986 26 54.2 172 2 US-09-134-001C-4222 Sequence 4222, Ap
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988 26 54.2 177 2 US-09-902-540-13481 Sequence 13481, A
989 26 54.2 179 2 US-09-248-796A-17828 Sequence 17828, A
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992 26 54.2 181 2 US-09-438-185A-701 Sequence 701, Appl
993 26 54.2 183 2 US-09-270-767-31817 Sequence 31817, A
994 26 54.2 183 2 US-09-270-767-47034 Sequence 47034, A
995 26 54.2 183 2 US-09-830-230A-86 Sequence 86, Appl
996 26 54.2 192 2 US-09-107-532A-5752 Sequence 5752, Ap
997 26 54.2 192 2 US-09-270-767-33147 Sequence 33147, A
998 26 54.2 192 2 US-09-270-767-48364 Sequence 48364, A
999 26 54.2 195 2 US-09-640-211A-2119 Sequence 2119, Ap
1000 26 54.2 201 2 US-09-252-991A-16826 Sequence 16826, A

ALIGNMENTS

RESULT 1
US-08-787-547-104
; Sequence 104, Application US/08787547
; Patent No. 5783567
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Curley, Joanne M.
; APPLICANT: Langer, Robert S.
; TITLE OF INVENTION: MICROPARTICLES FOR DELIVERY
; TITLE OF INVENTION: OF NUCLEIC ACID
; NUMBER OF SEQUENCES: 107
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/787,547
; FILING DATE: 22-JAN-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Frazer, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 08191/003001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 104:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide

US-08-787-547-104

Query Match 100.0%; Score 48; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDLOPET 9
Db 1 YMLDLOPET 9

RESULT 2
US-08-948-378A-17
; Sequence 17, Application US/08948378A
; Patent No. 6013258
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; APPLICANT: Collins, Edward J.
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM
; TITLE OF INVENTION: THE HPV E7 PROTEIN
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/948,378A
; FILING DATE: 09-OCT-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Frazer, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 08191/004001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-543-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-948-378A-17

Query Match 100.0%; Score 48; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDLOPET 9
Db 1 YMLDLOPET 9

RESULT 3
US-09-169-425C-17
; Sequence 17, Application US/09169425C
; Patent No. 6183746
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.

APPLICANT: Collins, Edward J.
APPLICANT: Hedley, Mary Lynn
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
TITLE OF INVENTION: PROTEIN
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/169,425C
FILING DATE: 09-OCT-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 66/061,657
FILING DATE: 09-OCT-1997
ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/004002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-543-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-169-425C-17

Query Match 100.0%; Score 48; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDLOPET 9
DB 1 YMLDLOPET 9

RESULT 4
US-08-197-484-66
Sequence 66, Application US/08197484
Patent No. 641931
GENERAL INFORMATION:
APPLICANT: VITIELLO, Maria A.
APPLICANT: CHESTNUT, Robert W.
APPLICANT: SETTE, Alessandro D.
APPLICANT: CELIS, Esben
APPLICANT: GRAY, Howard
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ELICITING
TITLE OF INVENTION: CTL IMMUNITY
NUMBER OF SEQUENCES: 153
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend Kourie and Crew
STREET: Stuart Street Tower, One Market Plaza
CITY: San Francisco
STATE: California
COUNTRY: US
ZIP: 94105-1493
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/197,484
FILING DATE: 16-FEB-1994
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/935,811
FILING DATE: 26-AUG-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/874,491
FILING DATE: 27-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/827,682
FILING DATE: 29-JAN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/749,568
FILING DATE: 26-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: Parmelee, Steven W.
REGISTRATION NUMBER: 31,990
REFERENCE/DOCKET NUMBER: 14137-26-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 467-9600
TELEFAX: (206) 623-6793
INFORMATION FOR SEQ ID NO: 66:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: peptide
US-08-197-484-66

Query Match 100.0%; Score 48; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDLOPET 9
DB 1 YMLDLOPET 9

RESULT 5
US-09-759-960-17
Sequence 17, Application US/09759960
Patent No. 6582704
GENERAL INFORMATION:
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
APPLICANT: Collins, Edward J.
APPLICANT: Hedley, Mary Lynn
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
TITLE OF INVENTION: PROTEIN
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/759,960
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/169,425
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Janis K.

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;   REGISTRATION NUMBER: 34,819
;   REFERENCE/DOCKET NUMBER: 08191/004002
;   TELECOMMUNICATION INFORMATION:
;   TELEPHONE: 617-542-5070
;   TELEFAX: 617-543-8906
;   TELEX: 200154
;   INFORMATION FOR SEQ ID NO: 17:
;   SEQUENCE CHARACTERISTICS:
;   LENGTH: 9 amino acids
;   TYPE: amino acid
;   TOPOLOGY: linear
;   MOLECULE TYPE: peptide
;   US-09-759-960-17

Query Match      100.0%; Score 48; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 YMLDLOPET 9
Db      1 YMLDLOPET 9

RESULT 6
US-10-365-908-3
; Sequence 3, Application US/10365908
; Patent No. 6797491
; GENERAL INFORMATION:
; APPLICANT: Neefe, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/10/365,908
; CURRENT FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US/09/891,823
; PRIOR FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papilloma virus
; US-10-365-908-3

Query Match      100.0%; Score 48; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 YMLDLOPET 9
Db      1 YMLDLOPET 9

RESULT 7
PCT-US95-02121-66
; Sequence 66, Application PC/TUS9502121
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ELICITING
; TITLE OF INVENTION: CTL IMMUNITY
; NUMBER OF SEQUENCES: 153
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/02121
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;   FILING DATE: 16-FEB-1995
;   CLASSIFICATION:
;   PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: US 08/197,484
;   FILING DATE: 16-FEB-1994
;   PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: US 07/935,811
;   FILING DATE: 26-AUG-1992
;   PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: US 07/874,491
;   FILING DATE: 27-APR-1992
;   PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: US 07/827,682
;   FILING DATE: 29-JAN-1992
;   PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: US 07/749,568
;   FILING DATE: 26-AUG-1991
;   ATTORNEY/AGENT INFORMATION:
;   NAME: Parmelee, Steven W.
;   REGISTRATION NUMBER: 31,990
;   REFERENCE/DOCKET NUMBER: 14137-26-4PC
;   TELECOMMUNICATION INFORMATION:
;   TELEPHONE: (206) 467-9600
;   TELEFAX: (415) 543-5043
;   INFORMATION FOR SEQ ID NO: 66:
;   SEQUENCE CHARACTERISTICS:
;   LENGTH: 9 amino acids
;   TYPE: amino acid
;   STRANDEDNESS: unknown
;   TOPOLOGY: unknown
;   MOLECULE TYPE: peptide
;   PCT-US95-02121-66
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Query Match      100.0%; Score 48; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy      1 YMLDLOPET 9
Db      1 YMLDLOPET 9
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RESULT 8
US-08-902-516-19
; Sequence 19, Application US/08902516
; Patent No. 5891432
; GENERAL INFORMATION:
; APPLICANT: Soo Hoo, William
; TITLE OF INVENTION: MEMBRANE-BOUND CYTOKINE COMPOSITIONS
; TITLE OF INVENTION: COMPRISING GM-CSF AND METHODS OF MODULATING AN IMMUNE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CAMPBELL & FLORES, LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: United States
; ZIP: 92121
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/902,516
; FILING DATE: 29-JUL-1997
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-IM 2442
; TELECOMMUNICATION INFORMATION:
```

TELEPHONE: (619)535-9001
TELEFAX: (619)535-8949
INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-902-516-19

Query Match 100.0%; Score 48; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0027;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDQPT 9
DB 1 YMLDQPT 9

RESULT 9

US-08-704-344-22
Sequence 22, Application US/08704344
Patent No. 6218363
GENERAL INFORMATION:
APPLICANT: BASERGA, Renato L.
APPLICANT: RESNICOFF, Mariana
APPLICANT: HUANG, Ziwei
TITLE OF INVENTION: MHC PEPTIDES AND METHODS OF USE
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSES: HALE AND DORR LLP
STREET: 1455 Pennsylvania Avenue, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/704,344
FILING DATE: 28-AUG-1996
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: WIXON, Henry N.
REGISTRATION NUMBER: 32,073
REFERENCE/DOCKET NUMBER: 104322.196
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 942-8459
TELEFAX: (202) 942-8484
INFORMATION FOR SEQ ID NO: 22:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-704-344-22

Query Match 100.0%; Score 48; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0027;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDQPT 9
DB 1 YMLDQPT 9

RESULT 10

US-09-847-185-19

Sequence 19, Application US/09847185
Patent No. 6482407
GENERAL INFORMATION:
APPLICANT: Soo Hoo, William
TITLE OF INVENTION: MEMBRANE-BOUND CYTOKINE COMPOSITIONS
COMPRISING GM-CSF AND METHODS OF MODULATING AN IMMUNE
RESPONSE USING SAME

NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: CAMPBELL & FLORES, LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: United States
ZIP: 92121

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/847,185
FILING DATE: 01-May-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/201,931
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-1M 2442
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619)535-8949
TELEFAX: (619)535-8949

INFORMATION FOR SEQ ID NO: 19:

SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 19:
US-09-847-185-19

Query Match 100.0%; Score 48; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0027;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDQPT 9
DB 1 YMLDQPT 9

RESULT 11

US-09-601-729-270
Sequence 270, Application US/09601729
Patent No. 6683052
GENERAL INFORMATION:
APPLICANT: THIAM, KADER
APPLICANT: AURIAULT, CLAUDE
APPLICANT: GRAS-MASSE, HELENE
APPLICANT: LOING, ESTELLE
APPLICANT: VERMAERDE, CLAUDIE
APPLICANT: GUILLET, JEAN GERARD
TITLE OF INVENTION: LIPOPEPTIDES CONTAINING AN INTERFERON FRAGMENT AND USES
FILE REFERENCE: USB-97-AU-IN
CURRENT APPLICATION NUMBER: US/09/601,729
CURRENT FILING DATE: 2000-11-20
PRIOR APPLICATION NUMBER: PCT/FR99/00259
PRIOR FILING DATE: 1999-02-05
PRIOR APPLICATION NUMBER: 98 01439
PRIOR FILING DATE: 1998-02-06

; NUMBER OF SEQ ID NOS: 281
; SOFTWARE: Patentn Ver. 2.1
; SEQ ID NO: 270
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: peptide
US-09-601-729-270

Query Match 100.0%; Score 48; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0027;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YMLDLPET 9
Db 1 YMLDLPET 9

RESULT 12
US-09-980-177A-19
; Sequence 19, Application US/09980177A
; Patent No. 6838084
; GENERAL INFORMATION:
; APPLICANT: Joachim, Ingrid
; APPLICANT: Nielsen, John
; TITLE OF INVENTION: Cytotoxic T-Cell Epitopes of the
; TITLE OF INVENTION: Papilloma Virus L1-Protein and Use Thereof in Diagnosis and
; FILE REFERENCE: 50125/036001
; CURRENT APPLICATION NUMBER: US/09/980,177A
; CURRENT FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: PCT/EP00/05006
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: DE 19925199.1
; PRIOR FILING DATE: 1999-06-01
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 19
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-980-177A-19

Query Match 100.0%; Score 48; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0027;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YMLDLPET 9
Db 1 YMLDLPET 9

RESULT 13
US-08-075-541D-35
; Sequence 35, Application US/08075541D
; Patent No. 6183745
; GENERAL INFORMATION:
; APPLICANT: TINDLE, ROBERT
; APPLICANT: FERNANDO, GERMAIN
; APPLICANT: FRAZER, IAN
; TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
; TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
; NUMBER OF SEQUENCES: 56
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
; STREET: 1601 MARKET STREET, 36TH FLOOR
; CITY: PHILADELPHIA
; STATE: PENNSYLVANIA
; COUNTRY: USA
; ZIP: 19103-2398
; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/075,541D
; FILING DATE: 10-JUN-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: AU pk 3876
; FILING DATE: 12-DEC-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: pct/au91/00575
; FILING DATE: 12-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: NADEL, ALAN S
; REGISTRATION NUMBER: 27,363
; REFERENCE/DOCKET NUMBER: 8795-4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-567-2020
; TELEFAX: 215-567-2991
; INFORMATION FOR SEQ ID NO: 35:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-075-541D-35

Query Match 100.0%; Score 48; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.0052;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YMLDLPET 9
Db 3 YMLDLPET 11

RESULT 14
US-08-934-915-46
; Sequence 46, Application US/08934915
; Patent No. 5932412
; GENERAL INFORMATION:
; APPLICANT: DILNER, JOAKIM
; APPLICANT: DILNER, LENA
; APPLICANT: CHENG, HWE-MING
; TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
; TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
; TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
; TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
; NUMBER OF SEQUENCES: 193
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MASON & ASSOCIATES, P.A.
; STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
; CITY: CLEARWATER
; STATE: FLORIDA
; COUNTRY: U.S.A.
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Windows 3.0
; SOFTWARE: Microsoft Word 6.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/934,915
; FILING DATE: 22-SEP-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/949,836
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: LOUISE A. Fouch

REGISTRATION NUMBER: 37,133
REFERENCE/DOCKET NUMBER: 1946.6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 813-538-3800
TELEFAX: 813-538-3820
TELEX:
INFORMATION FOR SEQ ID NO: 46:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-934-915-46

Query Match 100.0%; Score 48; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.0059;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDLOPET 9
DB 10 YMLDLOPET 18

RESULT 15
US-08-075-541D-43
Sequence 43, Application US/08075541D
Patent No. 6183745
GENERAL INFORMATION:
APPLICANT: TINDLE, ROBERT
APPLICANT: FERNANDO, GERMAIN
APPLICANT: FRAZER, IAN
TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
NUMBER OF SEQUENCES: 56
CORRESPONDENCE ADDRESS:
ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
STREET: 1601 MARKET STREET, 36TH FLOOR
CITY: PHILADELPHIA
STATE: PENNSYLVANIA
COUNTRY: USA
ZIP: 19103-2398
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/075,541D
FILING DATE: 10-JUN-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: AU pk 3876
FILING DATE: 12-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: pcc/au91/00575
FILING DATE: 12-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: NADEL, ALAN S
REGISTRATION NUMBER: 27,363
REFERENCE/DOCKET NUMBER: 8795-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-567-2020
TELEFAX: 215-567-2991
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-075-541D-43

Query Match 100.0%; Score 48; DB 2; Length 20;

Best Local Similarity 100.0%; Pred. No. 0.0059;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDLOPET 9
DB 11 YMLDLOPET 19

RESULT 16
US-08-075-541D-44
Sequence 44, Application US/08075541D
Patent No. 6183745
GENERAL INFORMATION:
APPLICANT: TINDLE, ROBERT
APPLICANT: FERNANDO, GERMAIN
APPLICANT: FRAZER, IAN
TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
NUMBER OF SEQUENCES: 56
CORRESPONDENCE ADDRESS:
ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
STREET: 1601 MARKET STREET, 36TH FLOOR
CITY: PHILADELPHIA
STATE: PENNSYLVANIA
COUNTRY: USA
ZIP: 19103-2398
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/075,541D
FILING DATE: 10-JUN-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: AU pk 3876
FILING DATE: 12-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: pcc/au91/00575
FILING DATE: 12-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: NADEL, ALAN S
REGISTRATION NUMBER: 27,363
REFERENCE/DOCKET NUMBER: 8795-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-567-2020
TELEFAX: 215-567-2991
INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-075-541D-44

Query Match 100.0%; Score 48; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.0059;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDLOPET 9
DB 6 YMLDLOPET 14

RESULT 17
US-09-980-177A-69
Sequence 69, Application US/09980177A
Patent No. 6838084
GENERAL INFORMATION:
APPLICANT: Jochmus, Ingrid
APPLICANT: Nieland, John

```

; TITLE OF INVENTION: Cytotoxic T-cell Epitopes of the
; TITLE OF INVENTION: Papilloma Virus L1-Protein and Use Thereof in Diagnosis and
; FILE REFERENCE: 50125/036001
; CURRENT APPLICATION NUMBER: US/09/980,177A
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: PCT/EP00/05006
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: DE 19925199.1
; PRIOR FILING DATE: 1999-06-01
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 69
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-980-177A-69

Query Match          100.0%; Score 48; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.0059;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 YMLDLPET 9
        |||||
        11 YMLDLPET 19

Db

RESULT 18
US-09-980-523A-14
; Sequence 14, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCES
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 AND E7
; TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
; FILE REFERENCE: MOBI NO INS
; CURRENT APPLICATION NUMBER: US/09/980,523A
; PRIOR FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: PCT/FR00/01513
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: FR 99/07012
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 23
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-09-980-523A-14

Query Match          100.0%; Score 48; DB 2; Length 23;
Best Local Similarity 100.0%; Pred. No. 0.0068;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 YMLDLPET 9
        |||||
        9 YMLDLPET 17

Db

RESULT 19
US-08-363-586-1
; Sequence 1, Application US/08363586
; Patent No. 5629161
; GENERAL INFORMATION:
; APPLICANT: Mueller, Martin
; APPLICANT: Giesmann, Lutz
; TITLE OF INVENTION: Use of HPV-16 B6 and E7-Gene Derived
; TITLE OF INVENTION: Peptides for the Diagnostic Purpose
```

```

; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Flanagan, Henderson, Farabow, Garrett &
; ADDRESSEE: Dunner
; STREET: 1300 I Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/363,586
; FILING DATE: 23-DEC-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/909,296
; FILING DATE: 09-JUL-1992
; APPLICATION NUMBER: EP 9111720.8
; FILING DATE: 13-JUL-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Madler, Linda A.
; REGISTRATION NUMBER: 33,218
; REFERENCE/DOCKET NUMBER: 02481-1195-00000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-408-4400
; TELEFAX: 202-408-4400
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-363-586-1

Query Match          100.0%; Score 48; DB 1; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.0091;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 YMLDLPET 9
        |||||
        6 YMLDLPET 14

Db

RESULT 20
US-08-934-915-51
; Sequence 51, Application US/08934915
; Patent No. 5932412
; GENERAL INFORMATION:
; APPLICANT: DILLNER, JOAKIM
; APPLICANT: DILLNER, LENA
; APPLICANT: CHENG, HWER-MING
; TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
; TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
; TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
; TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
; NUMBER OF SEQUENCES: 193
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MASON & ASSOCIATES, P.A.
; STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
; CITY: CLEARWATER
; STATE: FLORIDA
; COUNTRY: U.S.A.
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Windows 3.0
; SOFTWARE: Microsoft Word 6.0
; CURRENT APPLICATION DATA:
```


APPLICATION NUMBER: US/08/934,915
FILING DATE: 22-SEP-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/949,836
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: LOUISE A. Foutch
REGISTRATION NUMBER: 37,133
REFERENCE/DOCKET NUMBER: 1946.6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 813-538-3800
TELEFAX: 813-538-3820
TELEX:
INFORMATION FOR SEQ ID NO: 51:
SEQUENCE CHARACTERISTICS:
LENGTH: 30 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-934-915-51

Query Match 100.0%; Score 48; DB 1; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.0091;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDLOPET 9
|||||
Db 10 YMLDLOPET 18

RESULT 21
US-09-486-394-1
Sequence 1, Application US/09486394
Patent No. 6478749
GENERAL INFORMATION:
APPLICANT: Hoffl, Reinhard
TITLE OF INVENTION: Diagnostic Kit for Skin Tests, and Method
FILE REFERENCE: 032929-001
CURRENT APPLICATION NUMBER: US/09/486,394
CURRENT FILING DATE: 2000-06-20
PRIOR APPLICATION NUMBER: PCT/EP98/04773
PRIOR FILING DATE: 1998-07-30
PRIOR APPLICATION NUMBER: DE 197 37 409.3
PRIOR FILING DATE: 1997-08-27
NUMBER OF SEQ ID NOS: 6
SOFTWARE: Patentin version 3.1
SEQ ID NO 1
LENGTH: 30
TYPE: PRT
ORGANISM: Human papillomavirus type 16
FEATURE:
NAME/KEY: PEPTIDE
LOCATION: (1)..(30)
OTHER INFORMATION: E7 peptide.
US-09-486-394-1

Query Match 100.0%; Score 48; DB 2; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.0091;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDLOPET 9
|||||
Db 11 YMLDLOPET 19

RESULT 22
US-09-828-645-3
Sequence 3, Application US/09828645
Patent No. 6743593
GENERAL INFORMATION:
APPLICANT: Hu, Yao Xiong
TITLE OF INVENTION: Immunological Methodology for Discerning Human Papillomavirus

FILE REFERENCE: 146-1-002
CURRENT APPLICATION NUMBER: US/09/828,645
CURRENT FILING DATE: 2001-04-05
PRIOR APPLICATION NUMBER: US 60/194,796
PRIOR FILING DATE: 2000-04-05
NUMBER OF SEQ ID NOS: 8
SOFTWARE: Patentin version 3.1
SEQ ID NO 3
LENGTH: 30
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Derived from the E7 early region of HPV-16
US-09-828-645-3

Query Match 100.0%; Score 48; DB 2; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.0091;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDLOPET 9
|||||
Db 6 YMLDLOPET 14

RESULT 23
US-09-828-645-7
Sequence 7, Application US/09828645
Patent No. 6743593
GENERAL INFORMATION:
APPLICANT: Hu, Yao Xiong
TITLE OF INVENTION: Immunological Methodology for Discerning Human Papillomavirus
FILE REFERENCE: 146-1-002
CURRENT APPLICATION NUMBER: US/09/828,645
CURRENT FILING DATE: 2001-04-05
PRIOR APPLICATION NUMBER: US 60/194,796
PRIOR FILING DATE: 2000-04-05
NUMBER OF SEQ ID NOS: 8
SOFTWARE: Patentin version 3.1
SEQ ID NO 7
LENGTH: 30
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Derived from the E7 early region of HPV-16
NAME/KEY: misc_feature
LOCATION: (19)..(19)
OTHER INFORMATION: Xaa = L-carboxymethylcysteine
US-09-828-645-7

Query Match 100.0%; Score 48; DB 2; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.0091;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDLOPET 9
|||||
Db 6 YMLDLOPET 14

RESULT 24
US-09-390-027-6
Sequence 6, Application US/09390027
Patent No. 6235523
GENERAL INFORMATION:
APPLICANT: GAJEWICZYK, Diane M.
APPLICANT: PERSSON, Roy
APPLICANT: YAO, Fei-Long
APPLICANT: CAO, Shi-Xian
APPLICANT: KLEIN, Michael H.
APPLICANT: TARTAGLIA, James
APPLICANT: MOINGEON, Philippe
APPLICANT: ROVINSKI, Benjamin
TITLE OF INVENTION: TREATMENT OF CERVICAL CANCER
FILE REFERENCE: 1038-982 MIS:jdb

;; CURRENT APPLICATION NUMBER: US/09/390,027
;; CURRENT FILING DATE: 1999-09-03
;; EARLIER APPLICATION NUMBER: 60/099,291
;; EARLIER FILING DATE: 1998-09-04
;; NUMBER OF SEQ ID NOS: 12
;; SOFTWARE: Patent In Ver. 2.1
;; SEQ ID NO: 6
;; LENGTH: 59
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-390-027-6

Query Match 100.0%; Score 48; DB 2; Length 59;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 YMLDQPT 9
Db 14 YMLDQPT 22

RESULT 25
US-08-406-248-6
; Sequence 6, Application US/08406248
; Patent No. 5736318
; GENERAL INFORMATION:
; APPLICANT: Mungert, Karl
; APPLICANT: Jones, D. Leanne
; TITLE OF INVENTION: METHOD AND KIT FOR EVALUATING
; TITLE OF INVENTION: TRANSFORMED CELLS
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Ann-Louise Kerner, Ph.D., Lappin & Kusmer
; STREET: 200 State Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/406,248
; FILING DATE:
; CLASSIFICATION: 436
; ATTORNEY/AGENT INFORMATION:
; NAME: McDaniel's, Patricia A.
; REGISTRATION NUMBER: 33,194
; REFERENCE/DOCKET NUMBER: HA2-011
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-330-1300
; TELEFAX: 617-330-1311
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-406-248-6

Query Match 100.0%; Score 48; DB 1; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.033;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 YMLDQPT 9
Db 11 YMLDQPT 19

RESULT 26
US-08-075-541D-42
; Sequence 42, Application US/08075541D
; Patent No. 6183745
; GENERAL INFORMATION:
; APPLICANT: TINDLE, ROBERT
; APPLICANT: FERNANDO, GERMAIN
; APPLICANT: FRAZER, IAN
; TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
; TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
; NUMBER OF SEQUENCES: 56
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P. C.
; STREET: 1601 MARKET STREET, 36TH FLOOR
; CITY: PHILADELPHIA
; STATE: PENNSYLVANIA
; COUNTRY: USA
; ZIP: 19103-2398
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/075,541D
; FILING DATE: 10-JUN-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: AU pk 3876
; FILING DATE: 12-DEC-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: pct/au91/00575
; FILING DATE: 12-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: NADEL, ALAN S
; REGISTRATION NUMBER: 27,363
; REFERENCE/DOCKET NUMBER: 8795-4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-567-2020
; TELEFAX: 215-567-2991
; INFORMATION FOR SEQ ID NO: 42:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-075-541D-42

Query Match 100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.033;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 YMLDQPT 9
Db 11 YMLDQPT 19

RESULT 27
US-09-382-616A-1
; Sequence 1, Application US/09382616A
; Patent No. 6200746
; GENERAL INFORMATION:
; APPLICANT: Fisher, Christopher
; APPLICANT: He, Manxia
; TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
; FILE REFERENCE: 28341/6216
; CURRENT APPLICATION NUMBER: US/09/382,616A
; CURRENT FILING DATE: 1999-08-25
; PRIOR APPLICATION NUMBER: 09/382,616
; PRIOR FILING DATE: 1999-08-25
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: Patent In Ver. 2.0

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/ SEQ ID NO 1
/ LENGTH: 98
/ TYPE: PRT
/ ORGANISM: Papillomavirus sylvilagi
US-09-382-616A-1

Query Match          100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.033;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 YMLDLOPET 9
Db      11 YMLDLOPET 19

RESULT 28
US-08-944-368A-4
/ Sequence 4, Application US/08944368A
/ Patent No. 6228368
/ GENERAL INFORMATION:
/ APPLICANT: Gissman, et al.
/ TITLE OF INVENTION: Papilloma Virus Capsomere Vaccine
/ NUMBER OF SEQUENCES: 28
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
/ STREET: 233 South Wacker Drive, 6300 Sears Tower
/ CITY: Chicago
/ STATE: Illinois
/ COUNTRY: United States of America
/ ZIP: 60606-6402
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patentin Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/944,368A
/ FILING DATE:
/ CLASSIFICATION: 424
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Williams Jr., Joseph A.
/ REGISTRATION NUMBER: 38,659
/ REFERENCE/DOCKET NUMBER: 27013/34028
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 312-474-6300
/ TELEFAX: 312-474-0448
/ INFORMATION FOR SEQ ID NO: 4:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 98 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
US-08-944-368A-4

Query Match          100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.033;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 YMLDLOPET 9
Db      11 YMLDLOPET 19

RESULT 29
US-09-820-764-4
/ Sequence 4, Application US/09820764
/ Patent No. 6352696
/ GENERAL INFORMATION:
/ APPLICANT: BURGER, Alexander
/ APPLICANT: HALLER, Michael
/ TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
```

```
FORMULATIONS AND METHODS OF USE
/ NUMBER OF SEQUENCES: 28
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: FOLEY & LARDNER
/ STREET: 3000 K Street, N.W.
/ CITY: Washington
/ STATE: D.C.
/ COUNTRY: U.S.A.
/ ZIP: 20007-5109
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patentin Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/820,764
/ FILING DATE: 30-Mar-2001
/ CLASSIFICATION: <Unknown>
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 09/026,896
/ FILING DATE: 20-FEB-1998
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Sandercock, Colin G.
/ REGISTRATION NUMBER: 31,298
/ REFERENCE/DOCKET NUMBER: 37067/102
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (202) 672-5300
/ TELEFAX: (202) 672-5399
/ INFORMATION FOR SEQ ID NO: 4:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 98 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-820-764-4

Query Match          100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.033;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 YMLDLOPET 9
Db      11 YMLDLOPET 19

RESULT 30
US-09-613-303-8
/ Sequence 8, Application US/09613303
/ Patent No. 6495347
/ GENERAL INFORMATION:
/ APPLICANT: Siegel, Marvin
/ APPLICANT: Chu, N. Randall
/ APPLICANT: Mizzen, Lee A.
/ TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
/ FILE REFERENCE: 12071/002001
/ CURRENT APPLICATION NUMBER: US/09/613,303
/ CURRENT FILING DATE: 2000-07-10
/ PRIOR APPLICATION NUMBER: US 60/143,757
/ PRIOR FILING DATE: 1999-07-08
/ NUMBER OF SEQ ID NOS: 55
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 8
/ LENGTH: 98
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ OTHER INFORMATION: fusion sequence
US-09-613-303-8

Query Match          100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.033;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 YMLDQPT 9
      |||||
      11 YMLDQPT 19

Db

RESULT 31
US-09-566-420-19
; Sequence 19, Application US/09566420
; Patent No. 6500641
; GENERAL INFORMATION:
; APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
; TITLE OF INVENTION: IMMUNE RESPONSE
; FILE REFERENCE: TBA
; CURRENT APPLICATION NUMBER: US/09/566,420
; CURRENT FILING DATE: 2000-05-05
; PRIOR APPLICATION NUMBER: 60/132,752
; PRIOR FILING DATE: 1999-05-06
; PRIOR APPLICATION NUMBER: 60/132,750
; PRIOR FILING DATE: 1999-05-06
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 19
; TYPE: PRT
; ORGANISM: Human papillomavirus type E7
US-09-566-420-19

Query Match      100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.033;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 YMLDQPT 9
      |||||
      11 YMLDQPT 19

Db

RESULT 32
US-09-986-118A-4
; Sequence 4, Application US/09986118A
; Patent No. 6562351
; GENERAL INFORMATION:
; APPLICANT: BURGER, Alexander
; TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
; FORMULATIONS AND METHODS OF USE
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY & LARDNER
; STREET: 3000 K Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/986,118A
; FILING DATE: 07-NO. 6562351-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 09/026,896
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Sandercock, Colin G.
; REGISTRATION NUMBER: 31,298
; REFERENCE/DOCKET NUMBER: 37067/102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 672-5300

;
; TELEFAX: (202) 672-5399
;
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-986-118A-4

Query Match      100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.033;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 YMLDQPT 9
      |||||
      11 YMLDQPT 19

Db

RESULT 33
US-09-728-466-1
; Sequence 1, Application US/09728466
; Patent No. 6641994
; GENERAL INFORMATION:
; APPLICANT: Fisher, Christopher
; TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
; FILE REFERENCE: 28341/6216
; CURRENT APPLICATION NUMBER: US/09/728,466
; CURRENT FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: 09/382,616
; PRIOR FILING DATE: 1999-08-25
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Papillomavirus sv1v1ag1
US-09-728-466-1

Query Match      100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.033;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 YMLDQPT 9
      |||||
      11 YMLDQPT 19

Db

RESULT 34
US-09-824-017-4
; Sequence 4, Application US/09824017
; Patent No. 6649167
; GENERAL INFORMATION:
; APPLICANT: BURGER, Alexander
; TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
; FORMULATIONS AND METHODS OF USE
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY & LARDNER
; STREET: 3000 K Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/824,017
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FILE REFERENCE: TBA
CURRENT APPLICATION NUMBER: US/10/201,764
CURRENT FILING DATE: 2002-07-22
PRIOR APPLICATION NUMBER: US/09/566,420
PRIOR FILING DATE: 2000-05-05
PRIOR APPLICATION NUMBER: 60/132,752
PRIOR FILING DATE: 1999-05-06
PRIOR APPLICATION NUMBER: 60/132,750
PRIOR FILING DATE: 1999-05-06
NUMBER OF SEQ ID NOS: 19
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 19
LENGTH: 98
TYPE: PRT
ORGANISM: Human papillomavirus type E7
US-10-201-764-19

Query Match 100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.033;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YMLDQPET 9
Db 11 YMLDQPET 19

RESULT 35
US-10-267-311-8
Sequence 8, Application US/10267311
Patent No. 6657055
GENERAL INFORMATION:
APPLICANT: Siegel, Marvin
APPLICANT: Chu, N. Randall
APPLICANT: Mizzen, Lee A.
TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
FILE REFERENCE: 12071/002001
CURRENT APPLICATION NUMBER: US/10/267,311
CURRENT FILING DATE: 2002-10-09
PRIOR APPLICATION NUMBER: US/09/613,303
PRIOR FILING DATE: 2000-07-10
PRIOR APPLICATION NUMBER: US 60/143,757
PRIOR FILING DATE: 1999-07-08
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 8
LENGTH: 98
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: fusion sequence
US-10-267-311-8

Query Match 100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.033;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YMLDQPET 9
Db 11 YMLDQPET 19

RESULT 36
US-10-201-764-19
Sequence 19, Application US/10201764
Patent No. 6716623
GENERAL INFORMATION:
APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
TITLE OF INVENTION: IMMUNE RESPONSE

FILE REFERENCE: TBA
CURRENT APPLICATION NUMBER: US/10/201,764
CURRENT FILING DATE: 2002-07-22
PRIOR APPLICATION NUMBER: US/09/566,420
PRIOR FILING DATE: 2000-05-05
PRIOR APPLICATION NUMBER: 60/132,752
PRIOR FILING DATE: 1999-05-06
PRIOR APPLICATION NUMBER: 60/132,750
PRIOR FILING DATE: 1999-05-06
NUMBER OF SEQ ID NOS: 19
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 19
LENGTH: 98
TYPE: PRT
ORGANISM: Human papillomavirus type E7
US-10-201-764-19

Query Match 100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.033;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YMLDQPET 9
Db 11 YMLDQPET 19

RESULT 37
US-09-637-746-3
Sequence 3, Application US/09637746
Patent No. 6727079
GENERAL INFORMATION:
APPLICANT: Thorgeirsson, Snorri S.
APPLICANT: Woltsch, Joseph T.
APPLICANT: Zhang, Minghuang
TITLE OF INVENTION: CDNA ENCODING A GENE BOG (B5T OVER-EXPRESSED GENE) AND ITS PROTE.
FILE REFERENCE: 11613.29USM1
CURRENT APPLICATION NUMBER: US/09/637,746
CURRENT FILING DATE: 2000-08-11
PRIOR APPLICATION NUMBER: PCT/US99/04142
PRIOR FILING DATE: 1999-02-25
PRIOR APPLICATION NUMBER: US 60/079,567
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: US 60/075,922
PRIOR FILING DATE: 1998-02-25
NUMBER OF SEQ ID NOS: 15
SOFTWARE: PatentIn version 3.1
SEQ ID NO 3
LENGTH: 98
TYPE: PRT
ORGANISM: Human papillomavirus
US-09-637-746-3

Query Match 100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.033;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YMLDQPET 9
Db 11 YMLDQPET 19

RESULT 38
US-09-501-097A-7
Sequence 7, Application US/09501097A
Patent No. 6734173
GENERAL INFORMATION:
APPLICANT: Tzyy-Chouu Wu
APPLICANT: Chien-Fu Hung
TITLE OF INVENTION: IMPROVED HSP DNA VACCINES
FILE REFERENCE: 2240-169349
CURRENT APPLICATION NUMBER: US/09/501,097A
CURRENT FILING DATE: 2000-02-09

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; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 7
; LENGTH: 98
; TYPE: PRT
; ORGANISM: human papillomavirus
US-09-501-097A-7

Query Match
Best Local Similarity 100.0%; Score 48; DB 2; Length 98;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDQPT 9
Db 11 YMLDQPT 19

RESULT 39
US-09-980-523A-12
; Sequence 12, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCES
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 AND E7
; TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
; FILE REFERENCE: MOBI AO INS
; CURRENT APPLICATION NUMBER: US/09/980,523A
; PRIOR FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: PCT/FR00/01513
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: FR 99/07012
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 12
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-09-980-523A-12

Query Match
Best Local Similarity 100.0%; Score 48; DB 2; Length 98;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDQPT 9
Db 11 YMLDQPT 19

RESULT 40
US-09-613-303-12
; Sequence 12, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: MIZZEN, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 121
; TYPE: PRT
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; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-09-613-303-12

Query Match
Best Local Similarity 100.0%; Score 48; DB 2; Length 121;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDQPT 9
Db 34 YMLDQPT 42

RESULT 41
US-10-267-311-12
; Sequence 12, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: MIZZEN, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/267,311
; PRIOR FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 121
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-267-311-12

Query Match
Best Local Similarity 100.0%; Score 48; DB 2; Length 121;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDQPT 9
Db 34 YMLDQPT 42

RESULT 42
US-08-860-165-12
; Sequence 12, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; PRIOR FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
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OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-12

Query Match 100.0%; Score 48; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.062;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDLOPET 9
|||
Db 109 YMLDLOPET 117

RESULT 43
US-09-359-382-12
Sequence 12, Application US/09359382

Patent No. 6306397
GENERAL INFORMATION:
APPLICANT: EDWARDS, Stirling John
APPLICANT: COX, John Cooper
APPLICANT: WEBB, Elizabeth Ann
APPLICANT: PEASER, Ian
TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
FILE REFERENCE: 017227/0148
CURRENT APPLICATION NUMBER: US/09/359,382
CURRENT FILING DATE: 1999-07-23
EARLIER APPLICATION NUMBER: US 08/860,165
EARLIER FILING DATE: 1997-09-22
EARLIER APPLICATION NUMBER: PCT/AU95/00868
EARLIER FILING DATE: 1995-12-20
EARLIER APPLICATION NUMBER: AU PNO157/94
EARLIER FILING DATE: 1994-12-20
NUMBER OF SEQ ID NOS: 27
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 12
LENGTH: 172
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-09-359-382-12

Query Match 100.0%; Score 48; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.062;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDLOPET 9
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Db 109 YMLDLOPET 117

RESULT 44
US-09-462-993-2
Sequence 2, Application US/09462993

Patent No. 6884786
GENERAL INFORMATION:
APPLICANT: KIENY, Marie-Paule
APPLICANT: BALLOU, Jean-Marc
APPLICANT: BIZOUBARN, Nadine
TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
FILE REFERENCE: 017753-122
CURRENT APPLICATION NUMBER: US/09/462,993
CURRENT FILING DATE: 2000-04-17
PRIOR APPLICATION NUMBER: PCT/FR98/01576
PRIOR FILING DATE: 1998-07-17
PRIOR APPLICATION NUMBER: FR 97/09152
PRIOR FILING DATE: 1997-07-18
NUMBER OF SEQ ID NOS: 23
SOFTWARE: PatentIn Ver. 2.2
SEQ ID NO 2
LENGTH: 185
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Derived from human papillomavirus, strain

OTHER INFORMATION: HPV-16, E7 fusion signals of the rabies
OTHER INFORMATION: glycoprotein, clone E7*TKR.
US-09-462-993-2

Query Match 100.0%; Score 48; DB 2; Length 185;
Best Local Similarity 100.0%; Pred. No. 0.067;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDLOPET 9
|||
Db 36 YMLDLOPET 44

RESULT 45
US-09-613-303-35
Sequence 35, Application US/09613303

Patent No. 6495347
GENERAL INFORMATION:
APPLICANT: Siegel, Marvin
APPLICANT: Chu, N. Randall
APPLICANT: Mizzen, Lee A.
TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
FILE REFERENCE: 12071/002001
CURRENT APPLICATION NUMBER: US/09/613,303
CURRENT FILING DATE: 2000-07-10
PRIOR APPLICATION NUMBER: US 60/143,757
PRIOR FILING DATE: 1999-07-08
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 35
LENGTH: 198
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: fusion sequence
US-09-613-303-35

Query Match 100.0%; Score 48; DB 2; Length 198;
Best Local Similarity 100.0%; Pred. No. 0.072;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDLOPET 9
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Db 111 YMLDLOPET 119

RESULT 46
US-10-267-311-35
Sequence 35, Application US/10267311

Patent No. 6657055
GENERAL INFORMATION:
APPLICANT: Siegel, Marvin
APPLICANT: Chu, N. Randall
APPLICANT: Mizzen, Lee A.
TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
FILE REFERENCE: 12071/002001
CURRENT APPLICATION NUMBER: US/10/267,311
CURRENT FILING DATE: 2002-10-09
PRIOR APPLICATION NUMBER: US/09/613,303
PRIOR FILING DATE: 2000-07-10
PRIOR APPLICATION NUMBER: US 60/143,757
PRIOR FILING DATE: 1999-07-08
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 35
LENGTH: 198
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: fusion sequence
US-10-267-311-35

Query Match 100.0%; Score 48; DB 2; Length 198;

Best Local Similarity 100.0%; Pred. No. 0.072;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YMLDQPT 9
Db 111 YMLDQPT 119

RESULT 47
US-09-485-885-1
; Sequence 1, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabazon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 220
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-1

Query Match 100.0%; Score 48; DB 2; Length 220;
Best Local Similarity 100.0%; Pred. No. 0.081;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YMLDQPT 9
Db 124 YMLDQPT 132

RESULT 48
US-09-485-885-8
; Sequence 8, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabazon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 8
; LENGTH: 220
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-8

Query Match 100.0%; Score 48; DB 2; Length 220;
Best Local Similarity 100.0%; Pred. No. 0.081;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YMLDQPT 9
Db 124 YMLDQPT 132

RESULT 49
US-09-485-885-12
; Sequence 12, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabazon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 12
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-12

Query Match 100.0%; Score 48; DB 2; Length 239;
Best Local Similarity 100.0%; Pred. No. 0.088;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YMLDQPT 9
Db 143 YMLDQPT 151

RESULT 50
US-08-459-818-20
; Sequence 20, Application US/08459818
; Patent No. 5851795
; GENERAL INFORMATION:
; APPLICANT: Linsley, Peter S.
; APPLICANT: Ledbetter, Jeffrey A.
; APPLICANT: Damle, Nitin K.
; APPLICANT: Brady, William
; TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant & Gould
; STREET: 1150 Santa Monica Blvd., Suite 400
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: FastSeq 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/459,818
; FILING DATE: 02-JUN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Adriano, Saran B.
; REGISTRATION NUMBER: 34,470
; REFERENCE/DOCKET NUMBER: 30436.35US02
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 310-445-1140

TELEFAX: 310-445-9031
 ; INFORMATION FOR SEQ ID NO: 20:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 253 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS:
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-459-818-20

Query Match 100.0%; Score 48; DB 1; Length 253;
 Best Local Similarity 100.0%; Pred. No. 0.094;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDLOPET 9
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 Db 166 YMLDLOPET 174

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 Job time : 26.8 secs

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OM protein - protein search, using SW model

Run on: May 5, 2006, 07:44:45 ; Search time 55.9 Seconds
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67.271 Million cell updates/sec

Title: US-08-170-344-14

Perfect score: 48

Sequence: 1 YMLDQPERT 9

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Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 100 summaries

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- 2: /cgn2_6/prodata/1/pubppaa/US08_PUBCOMB.pep:*
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- 4: /cgn2_6/prodata/1/pubppaa/US10A_PUBCOMB.pep:*
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- 6: /cgn2_6/prodata/1/pubppaa/US11_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	48	100.0	9	3	US-09-872-836-104
5	48	100.0	9	4	US-10-128-711-66
6	48	100.0	9	4	US-10-365-908-3
7	48	100.0	9	5	US-10-603-062-17
8	48	100.0	9	5	US-10-871-138-3
9	48	100.0	9	5	US-10-758-970-104
10	48	100.0	9	5	US-10-751-845-58
11	48	100.0	10	3	US-09-847-185-19
12	48	100.0	10	3	US-09-835-853-22
13	48	100.0	10	3	US-09-739-466C-13
14	48	100.0	10	4	US-10-133-210-271
15	48	100.0	10	4	US-10-224-286-19
16	48	100.0	10	4	US-10-177-390-33
17	48	100.0	10	4	US-10-406-317-30
18	48	100.0	10	4	US-10-297-168-30
19	48	100.0	10	4	US-10-777-053-329
20	48	100.0	10	4	US-10-777-053-329
21	48	100.0	10	4	US-10-837-217-329
22	48	100.0	10	4	US-10-837-217-329
23	48	100.0	10	4	US-10-890-526-19
24	48	100.0	10	5	US-10-751-845-105
25	48	100.0	10	5	US-10-776-521B-366
26	48	100.0	10	5	US-10-820-067A-877
27	48	100.0	11	4	US-10-062-710-206

28	48	100.0	15	4	US-10-648-547-72	Sequence 72, App1
29	48	100.0	15	4	US-10-648-547-80	Sequence 80, App1
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31	48	100.0	15	4	US-10-476-570-45	Sequence 45, App1
32	48	100.0	15	4	US-10-476-570-46	Sequence 46, App1
33	48	100.0	15	4	US-10-306-541-12	Sequence 72, App1
34	48	100.0	15	4	US-10-306-541-80	Sequence 80, App1
35	48	100.0	15	4	US-10-306-541-92	Sequence 92, App1
36	48	100.0	19	5	US-10-751-845-67	Sequence 67, App1
37	48	100.0	20	4	US-10-432-465-44	Sequence 44, App1
38	48	100.0	20	4	US-10-476-570-14	Sequence 14, App1
39	48	100.0	20	5	US-10-890-526-69	Sequence 69, App1
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43	48	100.0	23	5	US-10-828-645-3	Sequence 3, App1
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46	48	100.0	30	5	US-10-827-007-3	Sequence 7, App1
47	48	100.0	30	5	US-10-827-007-7	Sequence 7, App1
48	48	100.0	30	5	US-10-827-003-3	Sequence 3, App1
49	48	100.0	30	5	US-10-827-003-7	Sequence 7, App1
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53	48	100.0	98	3	US-09-824-017-4	Sequence 4, App1
54	48	100.0	98	3	US-09-965-118A-4	Sequence 8, App1
55	48	100.0	98	4	US-10-267-311-8	Sequence 8, App1
56	48	100.0	98	4	US-10-177-330-8	Sequence 19, App1
57	48	100.0	98	4	US-10-201-764-19	Sequence 19, App1
58	48	100.0	98	4	US-10-392-113-29	Sequence 29, App1
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60	48	100.0	98	4	US-10-681-410-19	Sequence 19, App1
61	48	100.0	98	4	US-10-772-988-3	Sequence 3, App1
62	48	100.0	98	4	US-10-479-541-5	Sequence 5, App1
63	48	100.0	98	5	US-10-042-526A-4	Sequence 4, App1
64	48	100.0	98	5	US-10-657-399-1	Sequence 1, App1
65	48	100.0	98	5	US-10-858-384-12	Sequence 12, App1
66	48	100.0	98	5	US-10-484-063-26	Sequence 26, App1
67	48	100.0	98	5	US-10-343-448-5	Sequence 5, App1
68	48	100.0	98	5	US-10-679-956-8	Sequence 8, App1
69	48	100.0	98	5	US-10-367-057-17	Sequence 17, App1
70	48	100.0	98	6	US-11-077-939-5	Sequence 5, App1
71	48	100.0	99	4	US-10-115-440-7	Sequence 7, App1
72	48	100.0	111	4	US-10-472-724-4	Sequence 4, App1
73	48	100.0	111	5	US-10-751-845-126	Sequence 126, App1
74	48	100.0	121	4	US-10-267-311-12	Sequence 12, App1
75	48	100.0	121	5	US-10-679-956-12	Sequence 12, App1
76	48	100.0	185	6	US-11-072-288-2	Sequence 2, App1
77	48	100.0	198	4	US-10-267-311-35	Sequence 35, App1
78	48	100.0	198	5	US-10-679-956-35	Sequence 35, App1
79	48	100.0	220	4	US-10-000-903-1	Sequence 1, App1
80	48	100.0	220	4	US-10-000-903-8	Sequence 8, App1
81	48	100.0	220	5	US-10-899-771-1	Sequence 1, App1
82	48	100.0	220	5	US-10-899-771-8	Sequence 8, App1
83	48	100.0	236	5	US-10-751-845-157	Sequence 157, App1
84	48	100.0	237	5	US-10-751-845-158	Sequence 158, App1
85	48	100.0	239	4	US-10-000-903-12	Sequence 12, App1
86	48	100.0	239	5	US-10-899-771-12	Sequence 12, App1
87	48	100.0	261	3	US-10-751-845-160	Sequence 160, App1
88	48	100.0	261	3	US-09-367-309A-1	Sequence 1, App1
89	48	100.0	289	4	US-10-115-440-5	Sequence 5, App1
90	48	100.0	295	4	US-10-267-311-33	Sequence 33, App1
91	48	100.0	295	5	US-10-679-956-33	Sequence 33, App1
92	48	100.0	324	5	US-10-267-311-25	Sequence 25, App1
93	48	100.0	324	5	US-10-679-956-25	Sequence 25, App1
94	48	100.0	371	4	US-10-472-923-10	Sequence 10, App1
95	48	100.0	371	5	US-10-000-903-6	Sequence 6, App1
96	48	100.0	390	4	US-10-899-771-6	Sequence 6, App1
97	48	100.0	390	5	US-10-000-903-14	Sequence 14, App1
98	48	100.0	421	4	US-10-899-771-14	Sequence 14, App1
99	48	100.0	421	4	US-10-296-770-7	Sequence 7, App1
100	48	100.0	493	4	US-10-267-311-19	Sequence 19, App1

101	48	100.0	493	5	US-10-679-956-19	Sequence 19, Appl	174	33	68.8	333	4	US-10-282-132A-58387	Sequence 58387, A
102	48	100.0	639	4	US-10-267-311-17	Sequence 17, Appl	175	33	68.8	336	5	US-10-282-132A-66984	Sequence 66984, A
103	48	100.0	639	4	US-10-679-956-17	Sequence 17, Appl	176	33	68.8	339	5	US-10-872-762-2	Sequence 2, Appl1
104	48	100.0	641	4	US-10-267-311-51	Sequence 51, Appl	177	33	68.8	384	4	US-10-104-047-2534	Sequence 2534, Ap
105	48	100.0	641	4	US-10-679-956-51	Sequence 51, Appl	178	33	68.8	387	4	US-10-425-115-550457	Sequence 8, Appl1
106	48	100.0	647	5	US-10-267-311-53	Sequence 53, Appl	179	33	68.8	414	4	US-10-473-670-8	Sequence 9, Appl1
107	48	100.0	647	5	US-10-679-956-53	Sequence 53, Appl	180	33	68.8	414	4	US-10-618-941-8	Sequence 98, Appl
108	48	100.0	648	5	US-10-267-311-29	Sequence 29, Appl	181	33	68.8	434	4	US-10-425-114-69145	Sequence 69145, A
109	48	100.0	648	5	US-10-679-956-29	Sequence 29, Appl	182	33	68.8	474	4	US-10-425-115-24618	Sequence 24618, A
110	48	100.0	711	5	US-10-267-311-41	Sequence 41, Appl	183	33	68.8	477	4	US-10-425-114-6396	Sequence 6396, A
111	48	100.0	711	5	US-10-679-956-41	Sequence 41, Appl	184	33	68.8	552	3	US-09-909-088B-170	Sequence 170, App
112	48	100.0	724	5	US-10-267-311-45	Sequence 45, Appl	185	33	68.8	552	3	US-09-905-291A-170	Sequence 170, App
113	48	100.0	724	5	US-10-679-956-45	Sequence 45, Appl	186	33	68.8	552	3	US-09-905-291A-170	Sequence 170, App
114	48	100.0	805	4	US-10-367-095-9	Sequence 9, Appl1	187	33	68.8	552	3	US-09-905-853-170	Sequence 170, App
115	48	100.0	805	4	US-10-368-046-9	Sequence 9, Appl1	188	33	68.8	552	3	US-09-907-824-170	Sequence 170, App
116	48	100.0	805	4	US-10-367-367-9	Sequence 9, Appl1	189	33	68.8	552	3	US-09-907-841-170	Sequence 170, App
117	48	100.0	805	5	US-10-918-337-9	Sequence 9, Appl1	190	33	68.8	552	3	US-09-904-011-170	Sequence 170, App
118	43	89.6	488	4	US-10-367-095-8	Sequence 8, Appl1	191	33	68.8	552	3	US-09-903-640-170	Sequence 170, App
119	43	89.6	488	4	US-10-368-046-8	Sequence 8, Appl1	192	33	68.8	552	3	US-09-908-093-170	Sequence 170, App
120	43	89.6	488	4	US-10-367-367-8	Sequence 8, Appl1	193	33	68.8	552	3	US-09-906-742-170	Sequence 170, App
121	43	89.6	488	5	US-10-918-337-8	Sequence 8, Appl1	194	33	68.8	552	3	US-09-906-838-170	Sequence 170, App
122	41	85.4	9	4	US-10-128-711-71	Sequence 71, Appl	195	33	68.8	552	3	US-09-907-613-170	Sequence 170, App
123	41	85.4	9	4	US-10-777-053-328	Sequence 328, App	196	33	68.8	552	3	US-09-907-942-170	Sequence 170, App
124	41	85.4	9	4	US-10-777-053-496	Sequence 496, App	197	33	68.8	552	3	US-09-904-859-170	Sequence 170, App
125	41	85.4	9	4	US-10-777-053-913	Sequence 913, App	198	33	68.8	552	3	US-09-904-204-170	Sequence 170, App
126	41	85.4	9	4	US-10-837-217-328	Sequence 328, App	199	33	68.8	552	3	US-09-904-820-170	Sequence 170, App
127	41	85.4	9	4	US-10-837-217-496	Sequence 496, App	200	33	68.8	552	3	US-09-904-786-170	Sequence 170, App
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132	41	85.4	20	4	US-10-432-465-45	Sequence 45, Appl	205	33	68.8	552	3	US-09-903-749A-170	Sequence 170, App
133	41	85.4	20	5	US-10-890-526-70	Sequence 70, Appl	206	33	68.8	552	3	US-09-904-119-170	Sequence 170, App
134	40	83.3	321	4	US-10-425-115-224979	Sequence 224979, Sequence 5, Appl1	207	33	68.8	552	3	US-09-904-956-170	Sequence 170, App
135	40	83.3	356	4	US-10-357-521-5	Sequence 5, Appl1	208	33	68.8	552	3	US-09-902-736-170	Sequence 170, App
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710	33	68.8	552	5	US-10-978-255-170	Sequence 170, App	783	32	66.7	982	5	US-10-473-127-422	Sequence 422, App
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856	31	64.6	280	4	US-10-243-425-92	Sequence 92, Appl	929	31	64.6	313	4	US-10-289-762-142	Sequence 92, Appl
857	31	64.6	280	4	US-10-243-446-92	Sequence 92, Appl	930	31	64.6	328	4	US-10-767-701-38418	Sequence 92, Appl
858	31	64.6	280	4	US-10-245-874-92	Sequence 92, Appl	931	31	64.6	330	4	US-10-371-701-19	Sequence 92, Appl
859	31	64.6	280	4	US-10-242-653-92	Sequence 92, Appl	932	31	64.6	330	4	US-10-389-566-1786	Sequence 92, Appl
860	31	64.6	280	4	US-10-243-167-92	Sequence 92, Appl	933	31	64.6	337	5	US-10-371-701-25	Sequence 92, Appl
861	31	64.6	280	4	US-10-243-388-92	Sequence 92, Appl	934	31	64.6	347	4	US-10-732-923-17923	Sequence 92, Appl
862	31	64.6	280	4	US-10-244-947-92	Sequence 92, Appl	935	31	64.6	357	4	US-10-425-113-352962	Sequence 92, Appl
863	31	64.6	280	4	US-10-244-968-92	Sequence 92, Appl	936	31	64.6	371	4	US-10-425-114-61472	Sequence 92, Appl
864	31	64.6	280	4	US-10-245-079-92	Sequence 92, Appl	937	31	64.6	390	5	US-10-450-763-60652	Sequence 92, Appl
865	31	64.6	280	4	US-10-245-127-92	Sequence 92, Appl	938	31	64.6	391	4	US-10-425-114-56277	Sequence 92, Appl
866	31	64.6	280	4	US-10-245-207-92	Sequence 92, Appl	939	31	64.6	404	4	US-10-320-797-3140	Sequence 92, Appl
867	31	64.6	280	4	US-10-245-646-92	Sequence 92, Appl	940	31	64.6	470	4	US-10-389-566-1043	Sequence 92, Appl
868	31	64.6	280	4	US-10-245-695-92	Sequence 92, Appl	941	31	64.6	474	5	US-10-887-104-3	Sequence 92, Appl
869	31	64.6	280	4	US-10-245-699-92	Sequence 92, Appl	942	31	64.6	501	3	US-09-323-9980-55	Sequence 92, Appl
870	31	64.6	280	4	US-10-245-699-92	Sequence 92, Appl	943	31	64.6	515	4	US-10-425-114-40728	Sequence 92, Appl
871	31	64.6	280	4	US-10-245-737-92	Sequence 92, Appl	944	31	64.6	531	4	US-10-424-559-190122	Sequence 92, Appl
872	31	64.6	280	4	US-10-245-878-92	Sequence 92, Appl	945	31	64.6	536	4	US-10-369-499-19495	Sequence 92, Appl
873	31	64.6	280	4	US-10-245-890-92	Sequence 92, Appl	946	31	64.6	562	4	US-10-369-499-6784	Sequence 92, Appl
874	31	64.6	280	4	US-10-245-899-92	Sequence 92, Appl	947	31	64.6	585	5	US-10-489-423-46	Sequence 92, Appl
875	31	64.6	280	4	US-10-247-058-92	Sequence 92, Appl	948	31	64.6	606	3	US-09-071-035-240	Sequence 92, Appl
876	31	64.6	280	4	US-10-245-854-92	Sequence 92, Appl	949	31	64.6	606	4	US-10-206-576-240	Sequence 92, Appl
877	31	64.6	280	4	US-10-237-471-92	Sequence 92, Appl	950	31	64.6	637	6	US-10-912-362-240	Sequence 92, Appl
878	31	64.6	280	4	US-10-238-261-92	Sequence 92, Appl	951	31	64.6	637	6	US-10-270-333-168	Sequence 92, Appl
879	31	64.6	280	4	US-10-238-324-92	Sequence 92, Appl	952	31	64.6	637	6	US-11-097-143-33003	Sequence 92, Appl
880	31	64.6	280	4	US-10-241-860-92	Sequence 92, Appl	953	31	64.6	703	5	US-10-450-763-46352	Sequence 92, Appl
881	31	64.6	280	4	US-10-242-172-92	Sequence 92, Appl	954	31	64.6	710	4	US-10-425-115-338816	Sequence 92, Appl
882	31	64.6	280	4	US-10-242-652-92	Sequence 92, Appl	955	31	64.6	732	4	US-10-282-1128A-54856	Sequence 92, Appl
883	31	64.6	280	4	US-10-242-990-92	Sequence 92, Appl	956	31	64.6	764	4	US-10-425-114-54331	Sequence 92, Appl
884	31	64.6	280	4	US-10-243-023-92	Sequence 92, Appl	957	31	64.6	795	4	US-10-156-761-9690	Sequence 92, Appl
885	31	64.6	280	4	US-10-243-103-92	Sequence 92, Appl	958	31	64.6	805	4	US-10-369-493-22100	Sequence 92, Appl
886	31	64.6	280	4	US-10-243-376-92	Sequence 92, Appl	959	31	64.6	845	3	US-09-815-242-5433	Sequence 92, Appl
887	31	64.6	280	4	US-10-243-326-92	Sequence 92, Appl	960	31	64.6	867	3	US-09-815-242-10654	Sequence 92, Appl
888	31	64.6	280	4	US-10-243-364-92	Sequence 92, Appl	961	31	64.6	867	3	US-10-282-1128A-56931	Sequence 92, Appl
889	31	64.6	280	4	US-10-243-944-92	Sequence 92, Appl	962	31	64.6	869	3	US-09-815-242-12266	Sequence 92, Appl
890	31	64.6	280	4	US-10-244-995-92	Sequence 92, Appl	963	31	64.6	885	4	US-10-282-1128A-4484	Sequence 92, Appl
891	31	64.6	280	4	US-10-245-230-92	Sequence 92, Appl	964	31	64.6	885	4	US-10-437-963-160466	Sequence 92, Appl
892	31	64.6	280	4	US-10-245-253-92	Sequence 92, Appl	965	31	64.6	921	4	US-10-618-941-89	Sequence 92, Appl
893	31	64.6	280	4	US-10-245-479-92	Sequence 92, Appl	966	31	64.6	924	4	US-10-425-115-358126	Sequence 92, Appl
894	31	64.6	280	4	US-10-245-499-92	Sequence 92, Appl	967	31	64.6	940	4	US-10-282-1128A-52332	Sequence 92, Appl
895	31	64.6	280	4	US-10-245-499-92	Sequence 92, Appl	968	31	64.6	942	4	US-10-346-241-2	Sequence 92, Appl
896	31	64.6	280	4	US-10-245-772-92	Sequence 92, Appl	969	31	64.6	966	4	US-10-282-1128A-60874	Sequence 92, Appl
897	31	64.6	280	4	US-10-245-811-92	Sequence 92, Appl	970	31	64.6	996	4	US-10-346-241-6	Sequence 92, Appl
898	31	64.6	280	4	US-10-245-812-92	Sequence 92, Appl	971	31	64.6	1033	5	US-10-723-860-1420	Sequence 92, Appl
899	31	64.6	280	4	US-10-245-852-92	Sequence 92, Appl	972	31	64.6	1076	5	US-10-756-149-5065	Sequence 92, Appl
900	31	64.6	280	4	US-10-245-875-92	Sequence 92, Appl	973	31	64.6	1084	5	US-10-437-963-144916	Sequence 92, Appl
901	31	64.6	280	4	US-10-245-881-92	Sequence 92, Appl	974	31	64.6	1117	4	US-10-437-963-144917	Sequence 92, Appl
902	31	64.6	280	4	US-10-245-911-92	Sequence 92, Appl	975	31	64.6	1123	4	US-10-425-114-62713	Sequence 92, Appl
903	31	64.6	280	4	US-10-245-913-92	Sequence 92, Appl	976	31	64.6				

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977 31 64.6 1127 5 US-10-732-923-3322 Sequence 3322, Ap
978 31 64.6 1171 4 US-10-180-919-2 Sequence 2, Appli
979 31 64.6 1180 4 US-10-225-567A-178 Sequence 178, App
980 31 64.6 1180 4 US-10-722-357-16 Sequence 16, Appl
981 31 64.6 1198 4 US-10-156-761-8467 Sequence 8467, Ap
982 31 64.6 1203 4 US-10-027-923-5 Sequence 5, Appli
983 31 64.6 1203 5 US-10-887-104-2 Sequence 2, Appli
984 31 64.6 1212 4 US-10-027-923-4 Sequence 4, Appli
985 31 64.6 1212 4 US-10-346-241-7 Sequence 7, Appli
986 31 64.6 1218 5 US-10-967-091-24 Sequence 24, Appl
987 31 64.6 1223 3 US-09-071-035-236 Sequence 236, App
988 31 64.6 1223 4 US-10-206-576-236 Sequence 236, App
989 31 64.6 1223 5 US-10-912-362-236 Sequence 236, App
990 31 64.6 1201 3 US-09-071-035-234 Sequence 234, App
991 31 64.6 1201 3 US-09-071-035-238 Sequence 238, App
992 31 64.6 1201 3 US-09-071-035-242 Sequence 242, App
993 31 64.6 1201 4 US-10-206-576-234 Sequence 234, App
994 31 64.6 1201 4 US-10-206-576-238 Sequence 238, App
995 31 64.6 1201 4 US-10-206-576-238 Sequence 238, App
996 31 64.6 1201 5 US-10-912-362-234 Sequence 234, App
997 31 64.6 1201 5 US-10-912-362-238 Sequence 238, App
998 31 64.6 1201 5 US-10-912-362-242 Sequence 242, App
999 31 64.6 1478 5 US-10-732-923-3353 Sequence 3353, Ap
1000 31 64.6 1589 5 US-10-923-035-65 Sequence 65, Appl
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ALIGNMENTS

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RESULT 1
US-09-759-960-17
; Sequence 17, Application US/09759960
; Patent No. US2001006639A1
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; APPLICANT: Collins, Edward J.
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
; TITLE OF INVENTION: PROTEIN
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/759,960
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/169,425
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 08191/004002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-543-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
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US-09-759-960-17

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Query Match 100.0%; Score 48; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 YMLDQPERT 9
Db 1 YMLDQPERT 9
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RESULT 2

US-09-891-823-3

; Sequence 3, Application US/09891823

; Publication No. US20020110566A1

; GENERAL INFORMATION:

; APPLICANT: Neeffe, John R.

; APPLICANT: Boux, Leslie J.

; APPLICANT: Minnett, Mark T.

; APPLICANT: Goldstone, Stephen E.

; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT

; FILE REFERENCE: 12071-003001

; CURRENT APPLICATION NUMBER: US/09/891,823

; CURRENT FILING DATE: 2001-10-19

; PRIOR APPLICATION NUMBER: US 60/214,202

; PRIOR FILING DATE: 2000-06-26

; NUMBER OF SEQ ID NOS: 140

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 3

; LENGTH: 9

; TYPE: PRT

; ORGANISM: Human papilloma virus

US-09-891-823-3

Query Match

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Best Local Similarity 100.0%; Score 48; DB 3; Length 9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 YMLDQPERT 9
Db 1 YMLDQPERT 9
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RESULT 3

US-09-909-460-104

; Sequence 104, Application US/09909460

; Publication No. US20020182258A1

; GENERAL INFORMATION:

; APPLICANT: Putnam, David

; APPLICANT: Hedley, Mary Lynn

; TITLE OF INVENTION: MICROPARTICLES FOR DELIVERY OF NUCLEIC

; FILE REFERENCE: 08191/014001

; CURRENT APPLICATION NUMBER: US/09/909,460

; CURRENT FILING DATE: 2001-07-18

; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US/09/321,346

; PRIOR FILING DATE: EARLIER FILING DATE: 1999-05-27

; NUMBER OF SEQ ID NOS: 114

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 104

; LENGTH: 9

; TYPE: PRT

; ORGANISM: Human papilloma virus

US-09-909-460-104

Query Match

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Best Local Similarity 100.0%; Score 48; DB 3; Length 9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 YMLDQPERT 9
Db 1 YMLDQPERT 9
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Db 1 YMLDQPET 9

RESULT 4
US-09-872-836-104
; Sequence 104, Application US/09872836
; Publication No. US20040142475A1
; GENERAL INFORMATION:
; APPLICANT: Berman, Shikha P.
; APPLICANT: McKeever, Una
; APPLICANT: Hedley, Mary Lynne
; TITLE OF INVENTION: DELIVERY SYSTEMS FOR BIOACTIVE AGENTS
; FILE REFERENCE: 08191-018001
; CURRENT APPLICATION NUMBER: US/09/872,836
; CURRENT FILING DATE: 2001-06-01
; PRIOR APPLICATION NUMBER: US 60/208,830
; PRIOR FILING DATE: 2000-06-02
; NUMBER OF SEQ ID NOS: 120
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 104
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-872-836-104

Query Match 100.0%; Score 48; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDQPET 9
1 YMLDQPET 9

RESULT 5
US-10-128-711-66
; Sequence 66, Application US/10128711
; Publication No. US20030099634A1
; GENERAL INFORMATION:
; APPLICANT: VITIELLO, Maria A.
; CHESTNUT, Robert W.
; SETTE, Alessandro D.
; CELIS, Eteceban
; GRAY, Howard
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ELICITING
; NUMBER OF SEQUENCES: 153
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Townsend and Townsend Kourile and Crew
; STREET: Steuart Street Tower, One Market Plaza
; CITY: San Francisco
; STATE: California
; COUNTRY: US
; ZIP: 94105-1493
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/128,711
; FILING DATE: 22-Apr-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/197,484
; FILING DATE: 16-FEB-1994
; APPLICATION NUMBER: US 07/935,811
; FILING DATE: 26-AUG-1992
; APPLICATION NUMBER: US 07/874,491
; FILING DATE: 27-APR-1992
; APPLICATION NUMBER: US 07/827,682
; FILING DATE: 29-JAN-1992
; APPLICATION NUMBER: US 07/749,568

FILING DATE: 26-AUG-1991
ATTORNEY/AGENT INFORMATION:

NAME: Parmelee, Steven W.

REGISTRATION NUMBER: 31,990

REFERENCE/DOCKET NUMBER: 14137-26-4

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 467-9600

TELEFAX: (206) 623-6793

INFORMATION FOR SEQ ID NO: 66:

SEQUENCE CHARACTERISTICS:

LENGTH: 9 amino acids

TYPE: amino acid

STRANDEDNESS: unknown

TOPOLOGY: unknown

MOLECULE TYPE: peptide

SEQUENCE DESCRIPTION: SEQ ID NO: 66:

US-10-128-711-66

Query Match 100.0%; Score 48; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDQPET 9
1 YMLDQPET 9

RESULT 6
US-10-365-908-3
; Sequence 3, Application US/10365908
; Publication No. US20030170268A1
; GENERAL INFORMATION:
; APPLICANT: Neeffe, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/10/365,908
; CURRENT FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US/09/891,823
; PRIOR FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-10-365-908-3

Query Match 100.0%; Score 48; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDQPET 9
1 YMLDQPET 9

RESULT 7
US-10-603-062-17
; Sequence 17, Application US/10603062
; Publication No. US20040229809A1
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.
; CHICZ, Roman M.
; COLLINS, Edward J.
; HEDLEY, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
; PROTEIN

NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/603,062
FILING DATE: 24-Jun-2003
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/169,425C
FILING DATE: 09-OCT-1998
APPLICATION NUMBER: 60/061,657
FILING DATE: 09-OCT-1997
ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/004002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-543-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 17:
US-10-603-062-17
Query Match 100.0%; Score 48; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0;
Gaps 0;
QY 1 YMLDQPER 9
DB 1 YMLDQPER 9
RESULT 8
US-10-871-138-3
Sequence 3, Application US/10871138
Publication No. US20040235741A1
GENERAL INFORMATION:
APPLICANT: Neefe, John R.
APPLICANT: Boux, Leslie J.
APPLICANT: Winnett, Mark T.
APPLICANT: Goldstone, Stephen E.
APPLICANT: Siegel, Marvin
TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
FILE REFERENCE: 12071-003001
CURRENT APPLICATION NUMBER: US/10/871,138
CURRENT FILING DATE: 2004-06-18
PRIOR APPLICATION NUMBER: US/09/891,823
PRIOR FILING DATE: 2001-06-26
PRIOR APPLICATION NUMBER: US 60/214,202
PRIOR FILING DATE: 2000-06-26
NUMBER OF SEQ ID NOS: 140
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 3
LENGTH: 9
TYPE: PRT
ORGANISM: Human papilloma virus
US-10-871-138-3

Query Match 100.0%; Score 48; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0;
Gaps 0;

QY 1 YMLDQPER 9
DB 1 YMLDQPER 9

RESULT 9
US-10-758-970-104
Sequence 104, Application US/10758970
Publication No. US20050037086A1
GENERAL INFORMATION:
APPLICANT: Hedley, Mary Lynne
APPLICANT: Hsu, Yung-Yuen
APPLICANT: Tyo, Michael
TITLE OF INVENTION: CONTINUOUS-FLOW METHOD FOR PREPARING MICROPARTICLES
FILE REFERENCE: 08191-012001
CURRENT APPLICATION NUMBER: US/10/758,970
CURRENT FILING DATE: 2004-01-16
PRIOR APPLICATION NUMBER: US/09/715,708A
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: US 60/166,516
PRIOR FILING DATE: 1999-11-19
NUMBER OF SEQ ID NOS: 109
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 104
LENGTH: 9
TYPE: PRT
ORGANISM: Human papilloma virus
US-10-758-970-104

Query Match 100.0%; Score 48; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0;
Gaps 0;

QY 1 YMLDQPER 9
DB 1 YMLDQPER 9

RESULT 10
US-10-751-845-58
Sequence 58, Application US/10751845
Publication No. US20050100928A1
GENERAL INFORMATION:
APPLICANT: Hedley, Mary Lynne
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
FILE REFERENCE: 08191-013001
CURRENT APPLICATION NUMBER: US/10/751,845
CURRENT FILING DATE: 2004-01-05
PRIOR APPLICATION NUMBER: US/09/664,225
PRIOR FILING DATE: 2000-08-18
PRIOR APPLICATION NUMBER: US 60/169,846
PRIOR FILING DATE: 1999-12-09
PRIOR APPLICATION NUMBER: US 60/154,665
PRIOR FILING DATE: 1999-09-16
NUMBER OF SEQ ID NOS: 163
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 58
LENGTH: 9
TYPE: PRT
ORGANISM: Human Papilloma virus
US-10-751-845-58

Query Match 100.0%; Score 48; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0;
Gaps 0;

QY 1 YMLDQPER 9

Db 1 YMLDLOPET 9

RESULT 11

US-09-847-185-19
; Sequence 19, Application US/09847185
; Patent No. US20020076392A1

GENERAL INFORMATION:

APPLICANT: Soo Hoo, William

TITLE OF INVENTION: MEMBRANE-BOUND CYTOKINE COMPOSITIONS
COMPRISING GM-CSF AND METHODS OF MODULATING AN IMMUNE
RESPONSE USING SAME

NUMBER OF SEQUENCES: 50

CORRESPONDENCE ADDRESS:

ADDRESSEE: CAMPBELL & FLORES, LLP

STREET: 4370 La Jolla Village Drive, Suite 700

CITY: San Diego

STATE: California

COUNTRY: United States

ZIP: 92121

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Releasee #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/847,185

FILING DATE: 01-May-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/201,931

FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: Campbell, Cathryn A.

REGISTRATION NUMBER: 31,815

REFERENCE/DOCKET NUMBER: P-1M 2442

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619)535-9001

TELEFAX: (619)535-8949

INFORMATION FOR SEQ ID NO: 19:

SEQUENCE CHARACTERISTICS:

LENGTH: 10 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: peptide

SEQUENCE DESCRIPTION: SEQ ID NO: 19:

Query Match 100.0%; Score 48; DB 3; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.03;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDLOPET 9

Db 1 YMLDLOPET 9

RESULT 12

US-09-835-853-22

; Sequence 22, Application US/09835853

; Patent No. US20020165136A1

GENERAL INFORMATION:

APPLICANT: BASERGA, Renato L.

APPLICANT: RESNICOFF, Mariana

APPLICANT: HUANG, Ziwei

TITLE OF INVENTION: MHC PEPTIDES AND METHODS OF USE

NUMBER OF SEQUENCES: 23

CORRESPONDENCE ADDRESS:

ADDRESSEE: HALE and DORR LLP

STREET: 1455 Pennsylvania Avenue, N.W.

CITY: Washington

STATE: D.C.

COUNTRY: USA

ZIP: 20004

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Releasee #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/835,853

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/704,344

FILING DATE: 28-AUG-1996

ATTORNEY/AGENT INFORMATION:

NAME: WIXON, Henry N.

REGISTRATION NUMBER: 32,073

REFERENCE/DOCKET NUMBER: 104322.196

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202) 942-8459

TELEFAX: (202) 942-8484

INFORMATION FOR SEQ ID NO: 22:

SEQUENCE CHARACTERISTICS:

LENGTH: 10 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: peptide

HYPOTHETICAL: NO

ANTI-SENSE: NO

US-09-835-853-22

Query Match 100.0%; Score 48; DB 3; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.03; Mismatches 0; Indels 0; Gaps 0;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDLOPET 9

Db 1 YMLDLOPET 9

RESULT 13

US-09-739-466C-13

; Sequence 13, Application US/09739466C

; Publication No. US20050107585A1

GENERAL INFORMATION:

APPLICANT: MURRAY, JOSEPH S

APPLICANT: SIADHAN, TERUNA J

APPLICANT: HU, YONGBO

TITLE OF INVENTION: SIGNAL-1/SIGNAL-2 BIFUNCTIONAL PEPTIDE INHIBITORS

FILE REFERENCE: 23902-08805

CURRENT APPLICATION NUMBER: US/09/739,466C

CURRENT FILING DATE: 2000-12-18

NUMBER OF SEQ ID NOS: 46

SOFTWARE: Patentin Ver. 3.2

SEQ ID NO 13

LENGTH: 10

TYPE: PRT

ORGANISM: Human papillomavirus

US-09-739-466C-13

Query Match 100.0%; Score 48; DB 3; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.03; Mismatches 0; Indels 0; Gaps 0;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDLOPET 9

Db 1 YMLDLOPET 9

RESULT 14

US-10-133-210-271

; Sequence 271, Application US/10133210

US-10-133-210-271

; Sequence 271, Application US/10133210

Publication No. US20030103964A1
GENERAL INFORMATION:
APPLICANT: Delisi, Charles
APPLICANT: Berzofsky, Jay
APPLICANT: Gulukota, Kamalakara
APPLICANT: Vaccaro, Dennis
APPLICANT: Weng, Zhiping
APPLICANT: Zhang, Chao
TITLE OF INVENTION: METHODS FOR DESIGNING MOLECULAR CONJUGATES AND
FILE REFERENCE: BU-035AX
CURRENT APPLICATION NUMBER: US/10/133,210
NUMBER OF SEQ ID NOS: 281
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 271
LENGTH: 10
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-133-210-271

Query Match
Best Local Similarity 100.0%; Score 48; DB 4; Length 10;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YMLDQPT 9
Db 1 YMLDQPT 9

RESULT 15
US-10-224-286-19
Sequence 19, Application US/10224286
Publication No. US20030108517A1
GENERAL INFORMATION:
APPLICANT: Soo Hoo, William
TITLE OF INVENTION: MEMBRANE-BOUND CYTOKINE COMPOSITIONS
COMPRISING GM-CSF AND METHODS OF MODULATING AN IMMUNE
RESPONSE USING SAME
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: CAMPBELL & FLORES, LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: United States
ZIP: 92121
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/224,286
FILING DATE: 19-Aug-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/902,516
FILING DATE: 29-JUL-1997
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-1M 2442
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619)535-9001
TELEFAX: (619)535-8949
INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
TYPE: amino acid
TOPOLOGY: linear

MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 19:
US-10-224-286-19

Query Match
Best Local Similarity 100.0%; Score 48; DB 4; Length 10;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YMLDQPT 9
Db 1 YMLDQPT 9

RESULT 16
US-10-177-390-33
Sequence 33, Application US/10177390
Publication No. US20030143743A1
GENERAL INFORMATION:
APPLICANT: Schuler, Gerold
APPLICANT: N.V. Antwerp Innovatiecentrum
TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with Linear
FILE REFERENCE: 021505wo/JH/ml
CURRENT APPLICATION NUMBER: US/10/177,390
CURRENT FILING DATE: 2002-06-20
NUMBER OF SEQ ID NOS: 34
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 33
LENGTH: 10
TYPE: PRT
ORGANISM: Influenza virus
US-10-177-390-33

Query Match
Best Local Similarity 100.0%; Score 48; DB 4; Length 10;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YMLDQPT 9
Db 1 YMLDQPT 9

RESULT 17
US-10-406-317-30
Sequence 30, Application US/10406317
Publication No. US2004001958A1
GENERAL INFORMATION:
APPLICANT: Schlom, Jeffrey;
APPLICANT: Hodge, James;
APPLICANT: Panicali, Dennis
TITLE OF INVENTION: A recombinant vector expressing multiple costimulatory
FILE REFERENCE: 38163-0189
CURRENT APPLICATION NUMBER: US/10/406,317
CURRENT FILING DATE: 2003-04-04
PRIOR APPLICATION NUMBER: US/09/856,988
PRIOR FILING DATE: 2001-05-30
PRIOR APPLICATION NUMBER: PCT/US99/26866
PRIOR FILING DATE: 1999-11-12
PRIOR APPLICATION NUMBER: 60/111,582
PRIOR FILING DATE: 1998-12-09
NUMBER OF SEQ ID NOS: 41
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 30
LENGTH: 10
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
US-10-406-317-30

Query Match
Best Local Similarity 100.0%; Score 48; DB 4; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.03;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YMLDLOPET 9
Db 1 YMLDLOPET 9

RESULT 18

US-10-297-168-30
; Sequence 30, Application US/10297168
; Publication No. US2004009195A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, Jeffrey
; APPLICANT: GREINER, John W.
; APPLICANT: KASS, Erik
; APPLICANT: PANICALI, Dennis
; TITLE OF INVENTION: RECOMBINANT NON-REPLICATING VIRUS EXPRESSING GM-CSF AND
; TITLE OF INVENTION: USES THEREOF TO ENHANCE IMMUNE RESPONSES
; FILE REFERENCE: 38163-0167
; CURRENT APPLICATION NUMBER: US/10/297,168
; PRIOR FILING DATE: 2002-12-03
; PRIOR APPLICATION NUMBER: PCT/US01/19201
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US60/211,717
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 30
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-297-168-30

Query Match 100.0%; Score 48; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.03;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YMLDLOPET 9
Db 1 YMLDLOPET 9

RESULT 19

US-10-777-053-329
; Sequence 329, Application US/10777053
; Publication No. US20040132088A1
; GENERAL INFORMATION:
; APPLICANT: Simard, John J. L.
; APPLICANT: Diamond, David C.
; APPLICANT: Oiu, Zhiyong
; APPLICANT: Lei, Xiang-Dong
; TITLE OF INVENTION: EXPRESSION VECTORS ENCODING EPITOPES OF
; TITLE OF INVENTION: TARGET-ASSOCIATED ANTIGENS AND METHODS FOR THEIR DESIGN
; FILE REFERENCE: MANNK.022C1
; CURRENT APPLICATION NUMBER: US/10/777,053
; PRIOR FILING DATE: 2004-02-10
; PRIOR APPLICATION NUMBER: 10/292,413
; PRIOR FILING DATE: 2002-11-07
; PRIOR APPLICATION NUMBER: 60/336,968
; PRIOR FILING DATE: 2001-11-07
; NUMBER OF SEQ ID NOS: 979
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 329
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papillomavirus 16
US-10-777-053-329

Query Match 100.0%; Score 48; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.03;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YMLDLOPET 9
Db 1 YMLDLOPET 9

RESULT 20

US-10-777-053-542
; Sequence 542, Application US/10777053
; Publication No. US20040132088A1
; GENERAL INFORMATION:
; APPLICANT: Simard, John J. L.
; APPLICANT: Diamond, David C.
; APPLICANT: Oiu, Zhiyong
; APPLICANT: Lei, Xiang-Dong
; TITLE OF INVENTION: EXPRESSION VECTORS ENCODING EPITOPES OF
; TITLE OF INVENTION: TARGET-ASSOCIATED ANTIGENS AND METHODS FOR THEIR DESIGN
; FILE REFERENCE: MANNK.022C1
; CURRENT APPLICATION NUMBER: US/10/777,053
; PRIOR FILING DATE: 2004-02-10
; PRIOR APPLICATION NUMBER: 10/292,413
; PRIOR FILING DATE: 2002-11-07
; PRIOR APPLICATION NUMBER: 60/336,968
; PRIOR FILING DATE: 2001-11-07
; NUMBER OF SEQ ID NOS: 979
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 542
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-10-777-053-542

Query Match 100.0%; Score 48; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.03;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YMLDLOPET 9
Db 1 YMLDLOPET 9

RESULT 21

US-10-837-217-329
; Sequence 329, Application US/10837217
; Publication No. US20040203051A1
; GENERAL INFORMATION:
; APPLICANT: Simard, John J. L.
; APPLICANT: Diamond, David C.
; APPLICANT: Oiu, Zhiyong
; APPLICANT: Lei, Xiang-Dong
; TITLE OF INVENTION: EXPRESSION VECTORS ENCODING EPITOPES OF
; TITLE OF INVENTION: TARGET-ASSOCIATED ANTIGENS AND METHODS FOR THEIR DESIGN
; FILE REFERENCE: MANNK.022C2
; CURRENT APPLICATION NUMBER: US/10/837,217
; PRIOR FILING DATE: 2004-04-30
; PRIOR APPLICATION NUMBER: 10/292,413
; PRIOR FILING DATE: 2002-11-07
; PRIOR APPLICATION NUMBER: 60/336,968
; PRIOR FILING DATE: 2001-11-07
; NUMBER OF SEQ ID NOS: 979
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 329
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papillomavirus 16
US-10-837-217-329

Query Match 100.0%; Score 48; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.03;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YMLDLOPET 9
Db 1 YMLDLOPET 9

RESULT 22

US-10-837-217-542
; Sequence 542, Application US/10837217
; Publication No. US20040203051A1
; GENERAL INFORMATION:
; APPLICANT: Diamond, John J. L.
; APPLICANT: Diamond, David C.
; APPLICANT: Qiu, Zhiyong
; APPLICANT: Lei, Xiang-Dong
; TITLE OF INVENTION: EXPRESSION VECTORS ENCODING EPITOPES OF
; TITLE OF INVENTION: TARGET-ASSOCIATED ANTIGENS AND METHODS FOR THEIR DESIGN
; FILE REFERENCE: MANK, 022C2
; CURRENT APPLICATION NUMBER: US/10/837,217
; CURRENT FILING DATE: 2004-04-30
; PRIOR APPLICATION NUMBER: 10/292,413
; PRIOR FILING DATE: 2002-11-07
; PRIOR APPLICATION NUMBER: 60/336,968
; PRIOR FILING DATE: 2001-11-07
; NUMBER OF SEQ ID NOS: 979
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 542
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-10-837-217-542

Query Match 100.0%; Score 48; DB 4; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.03;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YMLDLQPT 9

Db 1 YMLDLQPT 9

RESULT 23

US-10-890-526-19
; Sequence 19, Application US/10890526
; Publication No. US20040258708A1
; GENERAL INFORMATION:
; APPLICANT: Jochims, Ingrid
; APPLICANT: Nieland, John
; TITLE OF INVENTION: Cytotoxic T-Cell Epitopes of the
; TITLE OF INVENTION: Papilloma Virus L1-Protein and Use Thereof in Diagnosis and
; FILE REFERENCE: 50125/036001
; CURRENT APPLICATION NUMBER: US/10/890,526
; CURRENT FILING DATE: 2004-07-13
; PRIOR APPLICATION NUMBER: US/09/980,177
; PRIOR FILING DATE: 2002-05-02
; PRIOR APPLICATION NUMBER: PCT/EP00/05006
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: DE 19925199.1
; PRIOR FILING DATE: 1999-06-01
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 19
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-890-526-19

Query Match 100.0%; Score 48; DB 5; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.03;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YMLDLQPT 9

Db 1 YMLDLQPT 9

RESULT 24

US-10-751-845-105
; Sequence 105, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 105
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-105

Query Match 100.0%; Score 48; DB 5; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.03;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YMLDLQPT 9

Db 1 YMLDLQPT 9

RESULT 25

US-10-776-521B-366
; Sequence 366, Application US/10776521B
; Publication No. US20050202033A1
; GENERAL INFORMATION:
; APPLICANT: Fletcher, Jessica
; APPLICANT: Prince-Conane, Kenya
; APPLICANT: Mehta, Sunil
; APPLICANT: Slusarewicz, Paul
; APPLICANT: Andjelic, Sofija
; APPLICANT: Barber, Brian
; TITLE OF INVENTION: IMPROVED HEAT SHOCK PROTEIN-BASED VACCINES AND
; TITLE OF INVENTION: IMMUNOTHERAPIES
; FILE REFERENCE: 8449-405-999
; CURRENT APPLICATION NUMBER: US/10/776,521B
; CURRENT FILING DATE: 2004-02-12
; PRIOR APPLICATION NUMBER: 60/503,417
; PRIOR FILING DATE: 2003-09-16
; PRIOR APPLICATION NUMBER: 60/463,746
; PRIOR FILING DATE: 2003-04-18
; PRIOR APPLICATION NUMBER: 60/462,469
; PRIOR FILING DATE: 2003-04-11
; PRIOR APPLICATION NUMBER: 60/447,142
; PRIOR FILING DATE: 2003-02-13
; NUMBER OF SEQ ID NOS: 419
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 366
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Heat shock protein binding domain
US-10-776-521B-366

Query Match 100.0%; Score 48; DB 5; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.03;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDQPERT 9
| | | | |
Db 1 YMLDQPERT 9

RESULT 26

US-10-820-067A-877
; Sequence 877, Application US/10820067A
; Publication No. US20050214312A1
; GENERAL INFORMATION:
; APPLICANT: Fletcher, J.
; APPLICANT: Prince-Cohane, K.
; APPLICANT: Mehta, S.
; APPLICANT: Slusarewicz, P.
; APPLICANT: Andjelic, S.
; APPLICANT: Barber, B.
; TITLE OF INVENTION: IMPROVED HEAT SHOCK PROTEIN-BASED
; TITLE OF INVENTION: VACCINES AND IMMUNOTHERAPIES
; FILE REFERENCE: 8449-406-999
; CURRENT FILING DATE: 2004-04-08
; PRIOR APPLICATION NUMBER: 60/462,469
; PRIOR FILING DATE: 2003-04-11
; PRIOR APPLICATION NUMBER: 60/463,746
; PRIOR FILING DATE: 2003-04-18
; PRIOR APPLICATION NUMBER: 60/503,417
; PRIOR FILING DATE: 2003-09-16
; NUMBER OF SEQ ID NOS: 926
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 877
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Heat shock-protein binding motif to form hybrid antigen
US-10-820-067A-877

Query Match 100.0%; Score 48; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.03;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDQPERT 9
| | | | |
Db 1 YMLDQPERT 9

RESULT 27

US-10-062-710-206
; Sequence 206, Application US/10062710
; Publication No. US20030049253A1
; GENERAL INFORMATION:
; APPLICANT: Li, Frank Q.
; APPLICANT: Chu, Yong-Liang
; APPLICANT: Qiu, Jian-Tai
; TITLE OF INVENTION: Polymeric Conjugates for Delivery of
; TITLE OF INVENTION: MHC-Recognized Epitopes
; TITLE OF INVENTION: Via Peptide Vaccines
; FILE REFERENCE: 3781-001-27
; CURRENT APPLICATION NUMBER: US/10/062,710
; CURRENT FILING DATE: 2002-02-05
; PRIOR APPLICATION NUMBER: US 60/310,498
; PRIOR FILING DATE: 2001-08-08
; NUMBER OF SEQ ID NOS: 232
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 206
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: T Cell epitopes
US-10-062-710-206

Query Match 100.0%; Score 48; DB 4; Length 11;

Best Local Similarity 100.0%; Pred. No. 0.033;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDQPERT 9
| | | | |
Db 2 YMLDQPERT 10

RESULT 28

US-10-648-547-72
; Sequence 72, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 72
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-72

Query Match 100.0%; Score 48; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.045;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDQPERT 9
| | | | |
Db 1 YMLDQPERT 9

RESULT 29

US-10-648-547-80
; Sequence 80, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 80
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-80

Query Match 100.0%; Score 48; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.045;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDQPERT 9
| | | | |
Db 2 YMLDQPERT 10

RESULT 30

```

US-10-648-547-92
Sequence 92, Application US/10648547
Publication No. US20040147044A1
GENERAL INFORMATION:
APPLICANT: Mittleman, Abraham
APPLICANT: Kanduc, Darja
TITLE OF INVENTION: Improved Antigens
FILE REFERENCE: 12354/9
CURRENT APPLICATION NUMBER: US/10/648,547
CURRENT FILING DATE: 2003-08-25
PRIOR APPLICATION NUMBER: 10/306,541
PRIOR FILING DATE: 11-25-2002
PRIOR APPLICATION NUMBER: 60/333,249
PRIOR FILING DATE: 11-23-2001
NUMBER OF SEQ ID NOS: 108
SOFTWARE: WordPerfect 8.0 for Windows
SEQ ID NO 92
LENGTH: 15
TYPE: prt
ORGANISM: human papillomavirus
US-10-648-547-92

```

Query Match	100.0%;	Score 48;	DB 4;	Length 15;
Best Local Similarity	100.0%;	Pred. No. 0.045;		
Matches	9;	Conservative	0;	Mismatches 0;
				Indels 0;
				Gaps 0;

Qy	1 YMLDLQPET 9
Db	5 YMLDLQPET 13

```

1      RESULT 31
2      US-10-476-570-45
3      Sequence 45, Application US/10476570
4      Publication No. US20040170644A1
5      GENERAL INFORMATION:
6      APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
7      APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
8      APPLICANT: MAILLERS, Bernard
9      APPLICANT: BOURGAULT-VILLADA, Isabelle
10     APPLICANT: POUVELLE-MORATILLE, Sandra
11     APPLICANT: GUILLET, Jean-Gerard
12     TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
13     TITLE OF INVENTION: papillomavirus proteins and uses thereof
14     FILE REFERENCE: 45636-5071-US
15     CURRENT APPLICATION NUMBER: US/10/476,570
16     CURRENT FILING DATE: 2003-11-04
17     PRIOR APPLICATION NUMBER: PCT/FR02/01533
18     PRIOR FILING DATE: 2002-05-03
19     PRIOR APPLICATION NUMBER: FR 01 05980
20     PRIOR FILING DATE: 2001-05-04
21     NUMBER OF SEQ ID NOS: 63
22     SOFTWARE: PatentIn Ver. 2.1
23     SEQ ID NO 45
24     LENGTH: 15
25     TYPE: PRT
26     ORGANISM: artificial sequence
27     FEATURE:
28     OTHER INFORMATION: Description of the artificial sequence: peptide E7 6-20
29     US-10-476-570-45

```

Query Match	100.0%;	Score 48;	DB 4;	Length 15;
Best Local Similarity	100.0%;	Pred. No. 0.045;		
Matches	9;	Conservative	0;	Mismatches 0;
				Indels 0;
				Gaps 0

QY	1 YMLDLQPET 9
D6	6 YMLDLQPET 14

RESULT 32
US-10-476-570-46
; Sequence 46, Application US/10476570

Publication No. US20040170644A1
GENERAL INFORMATION:
APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
APPLICANT: MAILLIERE, Bernard
APPLICANT: BOURGAULT-VILLADA, Isabelle
APPLICANT: BOUYELLE-MORATILLE, Sandra
APPLICANT: GUILLET, Jean-Gerard
TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
TITLE OF INVENTION: papillomavirus proteins and uses thereof
FILE REFERENCE: 45636-5071-US
CURRENT APPLICATION NUMBER: US/10/476,570
CURRENT FILING DATE: 2003-11-04
PRIOR APPLICATION NUMBER: PCT/FR02/01533
PRIOR FILING DATE: 2002-05-03
PRIOR APPLICATION NUMBER: FR 01 05980
PRIOR FILING DATE: 2001-05-04
NUMBER OF SEQ ID NOS: 63
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 46

Query Match	100.0%	Score 48	DB 4	length 15
Best Local	Similarity	100.0%	Pred. No. 0.045	
Matches	9	Conservative	0	Mismatches 0; Indels 0; Gaps 0

Qy	1 YMLDLQEPET 9
Db	3 YMLDLQEPET 11

```

RESULT 33
US-10-306-541-72
Sequence 72, Application US/10306541
Publication No. US20040171081A1
GENERAL INFORMATION:
APPLICANT: Mittleman, Abraham
TITLE OF INVENTION: Improved Antigens
FILE REFERENCE: 12354/4
CURRENT APPLICATION NUMBER: US/10/306,541
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: 60/333,249
PRIOR FILING DATE: 2001-11-23
NUMBER OF SEQ ID NOS: 108
SOFTWARE: Wordperfect 8.0 for Windows
SEQ ID NO: 72
LENGTH: 15
TYPE: PRT
ORGANISM: human papillomavirus
US-10-306-541-72

```

Query Match	100.0%	Score 48	DB 4	length 15
Best Local Similarity	100.0%	Pred. NO.	0.045	
Matches	9	Conservative	0	Indels 0; Gaps 0

QY	1	YMLDLQPET	9
Db	1	YMLDLQPET	9

RESULT 34
US-10-306-541-80
; Sequence 80, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darya

```

; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/4
; CURRENT APPLICATION NUMBER: US/10/306,541
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 2001-11-23
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 80
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-306-541-80
```

```
Query Match          100.0%; Score 48; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.045;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 YMLDLOPET 9
        |||||
Db      2 YMLDLOPET 10
```

```

RESULT 35
US-10-306-541-92
; Sequence 92, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
; APPLICANT: Mittleman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/4
; CURRENT APPLICATION NUMBER: US/10/306,541
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 2001-11-23
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 92
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-306-541-92
```

```
Query Match          100.0%; Score 48; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.045;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 YMLDLOPET 9
        |||||
Db      5 YMLDLOPET 13
```

```

RESULT 36
US-10-751-845-67
; Sequence 67, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
```

```

; SEQ ID NO 67
; LENGTH: 19
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-67
```

```
Query Match          100.0%; Score 48; DB 5; Length 19;
Best Local Similarity 100.0%; Pred. No. 0.058;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 YMLDLOPET 9
        |||||
Db      5 YMLDLOPET 13
```

```

RESULT 37
US-10-432-465-44
; Sequence 44, Application US/10432465
; Publication No. US20040091479A1
; GENERAL INFORMATION:
; APPLICANT: Nieland, John
; APPLICANT: Kaufmann, Andreas
; APPLICANT: Kather, Angela
; APPLICANT: Schinz, Manuela
; TITLE OF INVENTION: T-Cell Epitopes of the Papillomavirus L1
; TITLE OF INVENTION: Protein and E7 Protein and Their Use in Diagnosis and
; FILE REFERENCE: 50125/077001
; CURRENT APPLICATION NUMBER: US/10/432,465
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: PCT/EP01/14037
; PRIOR FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: DE 10059631.2
; PRIOR FILING DATE: 2000-12-01
; NUMBER OF SEQ ID NOS: 116
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 44
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-432-465-44
```

```
Query Match          100.0%; Score 48; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.061;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 YMLDLOPET 9
        |||||
Db      11 YMLDLOPET 19
```

```

RESULT 38
US-10-476-570-14
; Sequence 14, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLER, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: BOURVILLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
```

SEQ ID NO 14
LENGTH: 20
TYPE: PRT
ORGANISM: artificial sequence
FEATURE:
OTHER INFORMATION: Description of the artificial sequence: peptide E7 1-20
US-10-476-570-14

Query Match 100.0%; Score 48; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.061;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDQPT 9
DB 11 YMLDQPT 19

RESULT 39
US-10-890-526-69
Sequence 69, Application US/10890526
Publication No. US20040258708A1
GENERAL INFORMATION:
APPLICANT: Jochims, Ingrid
APPLICANT: Nieland, John
TITLE OF INVENTION: Cytotoxic T-cell Epitopes of the
TITLE OF INVENTION: Papilloma Virus L1-Protein and Use Thereof in Diagnosis and
TITLE OF INVENTION: Therapy
FILE REFERENCE: 50125/036001
CURRENT APPLICATION NUMBER: US/10/890,526
CURRENT FILING DATE: 2004-07-13
PRIOR APPLICATION NUMBER: US/09/980,177
PRIOR FILING DATE: 2002-05-02
PRIOR APPLICATION NUMBER: PCT/EP00/05006
PRIOR FILING DATE: 2000-05-31
PRIOR APPLICATION NUMBER: DE 19925199.1
PRIOR FILING DATE: 1999-06-01
NUMBER OF SEQ ID NOS: 77
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 69
LENGTH: 20
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-890-526-69

Query Match 100.0%; Score 48; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.061;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDQPT 9
DB 11 YMLDQPT 19

RESULT 40
US-10-476-570-15
Sequence 15, Application US/10476570
Publication No. US20040170644A1
GENERAL INFORMATION:
APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
APPLICANT: MAILLIERE, Bernard
APPLICANT: BOURGAULT-VILLADA, Isabelle
APPLICANT: POUVELE-MORATILLE, Sandra
TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
TITLE OF INVENTION: Papillomavirus proteins and uses thereof
FILE REFERENCE: 45636-5071-US
CURRENT APPLICATION NUMBER: US/10/476,570
CURRENT FILING DATE: 2003-11-04
PRIOR APPLICATION NUMBER: PCT/FR02/01533
PRIOR FILING DATE: 2002-05-03
PRIOR APPLICATION NUMBER: FR 01 05980
PRIOR FILING DATE: 2001-05-04

NUMBER OF SEQ ID NOS: 63
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 15
LENGTH: 21
TYPE: PRT
ORGANISM: artificial sequence
FEATURE:
OTHER INFORMATION: Description of the artificial sequence: peptide E7 7-27
US-10-476-570-15

Query Match 100.0%; Score 48; DB 4; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.064;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDQPT 9
DB 5 YMLDQPT 13

RESULT 41
US-10-776-521B-378
Sequence 378, Application US/10776521B
Publication No. US20050202033A1
GENERAL INFORMATION:
APPLICANT: Fletcher, Jessica
APPLICANT: Prince-Cohane, Kenya
APPLICANT: Mehta, Sunil
APPLICANT: Slusarewicz, Paul
APPLICANT: Andjelic, Sofija
APPLICANT: Barber, Brian
TITLE OF INVENTION: IMPROVED HEAT SHOCK PROTEIN-BASED VACCINES AND
TITLE OF INVENTION: IMMUNOTHERAPIES
FILE REFERENCE: 8449-405-999
CURRENT APPLICATION NUMBER: US/10/776,521B
CURRENT FILING DATE: 2004-02-12
PRIOR APPLICATION NUMBER: 60/503,417
PRIOR FILING DATE: 2003-09-16
PRIOR APPLICATION NUMBER: 60/463,746
PRIOR FILING DATE: 2003-04-18
PRIOR APPLICATION NUMBER: 60/462,469
PRIOR FILING DATE: 2003-04-11
PRIOR APPLICATION NUMBER: 60/447,142
PRIOR FILING DATE: 2003-02-13
NUMBER OF SEQ ID NOS: 419
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 378
LENGTH: 21
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Hybrid antigen
US-10-776-521B-378

Query Match 100.0%; Score 48; DB 5; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.064;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDQPT 9
DB 1 YMLDQPT 9

RESULT 42
US-10-476-570-57
Sequence 57, Application US/10476570
Publication No. US20040170644A1
GENERAL INFORMATION:
APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
APPLICANT: MAILLIERE, Bernard
APPLICANT: BOURGAULT-VILLADA, Isabelle
APPLICANT: POUVELE-MORATILLE, Sandra
APPLICANT: GUILLET, Jean-Gerard

```

; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: Papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 57
; LENGTH: 23
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E7 3-25
US-10-476-570-57
```

```

Query Match          100.0%; Score 48; DB 4; Length 23;
Best Local Similarity 100.0%; Pred. No. 0.071;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 YMLDLOPET 9
    |||||
Db 9 YMLDLOPET 17
```

```

RESULT 43
US-10-858-384-14
; Sequence 14, Application US/10858384
; Publication No. US2005003025A1
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
; CURRENT FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 14
; LENGTH: 23
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of the Artificial Sequence: Peptide fragment
; OTHER INFORMATION: for E7 of HPV
US-10-858-384-14
```

```

Query Match          100.0%; Score 48; DB 5; Length 23;
Best Local Similarity 100.0%; Pred. No. 0.071;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 YMLDLOPET 9
    |||||
Db 9 YMLDLOPET 17
```

```

RESULT 44
US-09-828-645-3
; Sequence 3, Application US/09828645
; Publication No. US20030027750A1
; GENERAL INFORMATION:
; APPLICANT: Hu, Yao Xiong
; TITLE OF INVENTION: Immunological Methodology for Discerning Human Papillomavirus
```

```

; FILE REFERENCE: 146-1-002
; CURRENT APPLICATION NUMBER: US/09/828,645
; CURRENT FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: US 60/194,796
; PRIOR FILING DATE: 2000-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 30
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from the E7 early region of HPV-16
US-09-828-645-3
```

```

Query Match          100.0%; Score 48; DB 3; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.093;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 YMLDLOPET 9
    |||||
Db 6 YMLDLOPET 14
```

```

RESULT 45
US-09-828-645-7
; Sequence 7, Application US/09828645
; Publication No. US20030027750A1
; GENERAL INFORMATION:
; APPLICANT: Hu, Yao Xiong
; TITLE OF INVENTION: Immunological Methodology for Discerning Human Papillomavirus
; FILE REFERENCE: 146-1-002
; CURRENT APPLICATION NUMBER: US/09/828,645
; CURRENT FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: US 60/194,796
; PRIOR FILING DATE: 2000-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 30
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from the E7 early region of HPV-16
; NAME/KEY: misc.feature
; LOCATION: (19)..(19)
; OTHER INFORMATION: Xaa = L-carboxymethylcysteine
US-09-828-645-7
```

```

Query Match          100.0%; Score 48; DB 3; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.093;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 YMLDLOPET 9
    |||||
Db 6 YMLDLOPET 14
```

```

RESULT 46
US-10-827-007-3
; Sequence 3, Application US/10827007
; Publication No. US20050042599A1
; GENERAL INFORMATION:
; APPLICANT: Impact Diagnostics
; APPLICANT: Hu, Yao Xiong
; TITLE OF INVENTION: Immunological Methodology for Discerning Human Papillomavirus
; TITLE OF INVENTION: Contemplating Peptides From the E7 Early Coding Region of HPV 1
; FILE REFERENCE: 3352-2-1-3
; CURRENT APPLICATION NUMBER: US/10/827,007
; CURRENT FILING DATE: 2004-04-19
; PRIOR APPLICATION NUMBER: US 09/828,645
; PRIOR FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: US 60/194,796
```

```
; PRIOR FILING DATE: 2000-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3
; LENGTH: 30
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Derived from the E7 early coding region of HPV-16
US-10-827-007-3
```

```
Query Match          100.0%; Score 48; DB 5; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.093;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 YMLDQPET 9
        |||||
Db      6 YMLDQPET 14
```

```
RESULT 47
US-10-827-007-7
; Sequence 7, Application US/10827007
; Publication No. US20050042599A1
; GENERAL INFORMATION:
; APPLICANT: Impact Diagnostics
; APPLICANT: Hu, Yao Xiong
; TITLE OF INVENTION: Immunological Methodology for Discerning Human Papillomavirus
; FILE REFERENCE: 3352-2-1-3
; CURRENT APPLICATION NUMBER: US/10/827,007
; PRIOR FILING DATE: 2004-04-19
; PRIOR APPLICATION NUMBER: US 09/828,645
; PRIOR FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: US 60/194,796
; PRIOR FILING DATE: 2000-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 7
; LENGTH: 30
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Derived from the E7 early coding region of HPV-16
; NAME/KEY: MISC FEATURE
; LOCATION: (19)..(19)
; OTHER INFORMATION: Xaa = L-Carboxymethylcysteine
US-10-827-007-7
```

```
Query Match          100.0%; Score 48; DB 5; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.093;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 YMLDQPET 9
        |||||
Db      6 YMLDQPET 14
```

```
RESULT 48
US-10-827-083-3
; Sequence 3, Application US/10827083
; Publication No. US20050042600A1
; GENERAL INFORMATION:
; APPLICANT: Impact Diagnostics
; APPLICANT: Hu, Yao Xiong
; TITLE OF INVENTION: Immunological Methodology for Discerning Human Papillomavirus
; FILE REFERENCE: 3352-2-1-4
; CURRENT APPLICATION NUMBER: US/10/827,083
; PRIOR FILING DATE: 2004-04-19
; PRIOR APPLICATION NUMBER: US 09/828,645
; PRIOR FILING DATE: 2001-04-05
```

```
; PRIOR APPLICATION NUMBER: US 60/194,796
; PRIOR FILING DATE: 2000-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3
; LENGTH: 30
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Derived from the E7 early coding region of HPV-16
US-10-827-083-3
```

```
Query Match          100.0%; Score 48; DB 5; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.093;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 YMLDQPET 9
        |||||
Db      6 YMLDQPET 14
```

```
RESULT 49
US-10-827-083-7
; Sequence 7, Application US/10827083
; Publication No. US20050042600A1
; GENERAL INFORMATION:
; APPLICANT: Impact Diagnostics
; APPLICANT: Hu, Yao Xiong
; TITLE OF INVENTION: Immunological Methodology for Discerning Human Papillomavirus
; FILE REFERENCE: 3352-2-1-4
; CURRENT APPLICATION NUMBER: US/10/827,083
; PRIOR FILING DATE: 2004-04-19
; PRIOR APPLICATION NUMBER: US 09/828,645
; PRIOR FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: US 60/194,796
; PRIOR FILING DATE: 2000-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 7
; LENGTH: 30
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Derived from the E7 early coding region of HPV-16
; NAME/KEY: MISC FEATURE
; LOCATION: (19)..(19)
; OTHER INFORMATION: Xaa = L-Carboxymethylcysteine
US-10-827-083-7
```

```
Query Match          100.0%; Score 48; DB 5; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.093;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 YMLDQPET 9
        |||||
Db      6 YMLDQPET 14
```

```
RESULT 50
US-09-739-466C-46
; Sequence 46, Application US/09739466C
; Publication No. US20050107585A1
; GENERAL INFORMATION:
; APPLICANT: MURRAY, JOSEPH S
; APPLICANT: SIHMAN, TERUNA J
; TITLE OF INVENTION: SIGNAL-1/SIGNAL-2 BIFUNCTIONAL PEPTIDE INHIBITORS
; FILE REFERENCE: 23902-08805
; CURRENT APPLICATION NUMBER: US/09/739,466C
; CURRENT FILING DATE: 2000-12-18
; NUMBER OF SEQ ID NOS: 46
```

```
/
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 46
; LENGTH: 31
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Peptide
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (11)
; OTHER INFORMATION: aminocaproic acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (13)
; OTHER INFORMATION: aminocaproic acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (15)
; OTHER INFORMATION: aminocaproic acid
US-09-739-466C-46

Query Match      100.0%; Score 48; DB 3; Length 31;
Best Local Similarity 100.0%; Pred. No. 0.096;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Search completed: May 5, 2006, 07:55:16
Job time : 69.9 secs

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OM protein - protein search, using sw model

Run on: May 5, 2006, 07:46:05 ; Search time 8.4 Seconds
(without alignments)
49.591 Million cell updates/sec

Title: US-08-170-344-14
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Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues
Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database :

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	48	100.0	98	8	US-10-511-814-11
4	48	100.0	98	9	US-10-530-253-14
5	48	100.0	98	11	US-11-179-478-4
6	48	100.0	248	9	US-10-530-253-1
7	48	100.0	248	9	US-10-530-253-3
8	48	100.0	248	9	US-10-530-253-5
9	48	100.0	248	9	US-10-530-253-7
10	48	100.0	248	9	US-10-530-253-9
11	48	100.0	248	9	US-10-530-253-11
12	48	100.0	256	11	US-11-192-923-2
13	44	91.7	15	9	US-10-530-061-1731
14	44	91.7	99	9	US-10-530-253-34
15	41	85.4	15	9	US-10-530-061-1749
16	39	81.2	15	9	US-10-530-061-1720
17	39	81.2	98	9	US-10-530-253-28
18	36	75.0	99	9	US-10-530-253-50
19	35	72.9	395	9	US-10-467-657-1266
20	34	70.8	15	9	US-10-530-061-1745
21	34	70.8	15	9	US-10-530-061-1751

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23	70.8	324	11	US-11-188-298-1360	Sequence 3960, A
24	70.8	646	11	US-11-087-099-10725	Sequence 10725, A
25	70.8	646	11	US-11-188-298-9913	Sequence 9913, Ap
26	70.8	698	11	US-11-087-099-8952	Sequence 8952, Ap
27	70.8	698	11	US-11-087-099-9341	Sequence 9341, Ap
28	70.8	698	11	US-11-188-298-8685	Sequence 8685, Ap
29	70.8	698	11	US-11-188-298-19289	Sequence 19289, A
30	70.8	896	11	US-11-218-020-15	Sequence 15, Appl
31	70.8	1039	8	US-10-511-937-2429	Sequence 2429, Ap
32	68.8	15	9	US-10-530-061-1724	Sequence 1724, Ap
33	68.8	97	9	US-10-530-253-29	Sequence 29, Appl
34	68.8	257	11	US-11-188-298-18028	Sequence 18028, A
35	68.8	384	11	US-11-072-512-2534	Sequence 2534, A
36	68.8	398	11	US-11-188-298-18665	Sequence 18665, A
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38	68.8	510	11	US-11-087-099-4252	Sequence 4252, Ap
39	68.8	510	11	US-11-188-298-14373	Sequence 14373, A
40	68.8	512	11	US-11-087-099-6798	Sequence 6798, Ap
41	68.8	552	9	US-10-131-826A-332	Sequence 332, App
42	68.8	552	9	US-10-973-115B-332	Sequence 332, App
43	68.8	552	9	US-10-137-873A-332	Sequence 332, App
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47	68.8	935	9	US-10-995-561-1013	Sequence 1013, Ap
48	68.8	1363	9	US-10-877-346-43	Sequence 43, Appl
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52	66.7	305	11	US-11-087-177-11	Sequence 11, Appl
53	66.7	305	11	US-11-087-177-13	Sequence 13, Appl
54	66.7	365	9	US-10-163-712A-81	Sequence 81, Appl
55	66.7	387	11	US-11-188-298-6836	Sequence 6836, Ap
56	66.7	548	9	US-10-493-909-77	Sequence 77, Appl
57	66.7	548	9	US-10-493-909-78	Sequence 78, Appl
58	66.7	770	8	US-10-505-928-361	Sequence 361, Appl
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61	64.6	176	11	US-11-096-568A-26529	Sequence 26529, A
62	64.6	191	11	US-11-096-568A-26528	Sequence 26528, A
63	64.6	253	11	US-11-087-099-11582	Sequence 11582, A
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68	64.6	280	9	US-10-243-189-92	Sequence 92, Appl
69	64.6	280	9	US-10-243-215-92	Sequence 92, Appl
70	64.6	280	9	US-10-243-236-92	Sequence 92, Appl
71	64.6	280	9	US-10-243-298-92	Sequence 92, Appl
72	64.6	280	9	US-10-243-304-92	Sequence 92, Appl
73	64.6	280	9	US-10-243-338-92	Sequence 92, Appl
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75	64.6	280	9	US-10-243-357-92	Sequence 92, Appl
76	64.6	280	9	US-10-245-083-92	Sequence 92, Appl
77	64.6	280	9	US-10-247-015-92	Sequence 92, Appl
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83	64.6	430	11	US-11-096-568A-18809	Sequence 18809, A
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85	64.6	1896	9	US-10-877-346-13	Sequence 13, Appl
86	64.6	3433	11	US-10-714-781A-67	Sequence 67, Appl
87	64.6	3433	11	US-11-223-729-2	Sequence 2, Appl1
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90	62.5	336	11	US-11-188-298-13333	Sequence 13333, A
91	62.5	339	11	US-11-188-298-14926	Sequence 14926, A
92	62.5	359	11	US-11-188-298-14633	Sequence 14633, A
93	62.5	361	11	US-11-188-298-2340	Sequence 2340, Ap
94	62.5	369	11	US-11-074-176-324	Sequence 324, App

95	62.5	406	11	US-11-074-176-92	Sequence 92, Appl	166	29	60.4	2304	9	US-10-330-773-310	Sequence 310, App
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97	62.5	423	11	US-11-035-822-258	Sequence 258, Appl	170	29	60.4	2813	9	US-10-995-561-698	Sequence 698, App
98	62.5	467	11	US-11-219-995-7	Sequence 7, Appl1	171	29	60.4	2919	9	US-10-821-234-1133	Sequence 1133, App
99	62.5	468	11	US-11-055-822-68	Sequence 68, Appl1	172	28	58.3	17	9	US-10-895-064-2899	Sequence 2899, App
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107	62.5	513	9	US-10-979-095-2	Sequence 2, Appl1	180	28	58.3	232	9	US-11-054-281-118	Sequence 118, App
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112	62.5	673	9	US-10-784-004-937	Sequence 937, App	185	28	58.3	271	11	US-11-096-5684-19609	Sequence 19009, A
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114	62.5	676	9	US-10-784-004-1084	Sequence 1084, App	187	28	58.3	279	11	US-11-096-5684-31649	Sequence 31649, A
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119	62.5	937	11	US-11-079-463-7544	Sequence 7544, App	192	28	58.3	312	11	US-11-054-281-324	Sequence 334, App
120	62.5	956	11	US-11-016-706-4039	Sequence 40, Appl1	193	28	58.3	312	11	US-11-072-512-2882	Sequence 2882, App
121	62.5	1072	11	US-11-019-463-8439	Sequence 8439, App	194	28	58.3	322	11	US-11-188-298-19156	Sequence 19156, A
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138	60.4	412	11	US-11-087-099-3547	Sequence 3547, App	211	28	58.3	416	9	US-10-467-657-3284	Sequence 5284, App
139	60.4	425	8	US-10-503-928-594	Sequence 594, App	212	28	58.3	433	11	US-11-096-5684-24798	Sequence 24798, A
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144	60.4	427	11	US-11-087-099-12304	Sequence 12304, A	217	28	58.3	467	11	US-11-096-5684-30340	Sequence 30340, A
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147	60.4	441	11	US-11-087-099-2892	Sequence 2892, App	220	28	58.3	470	11	US-11-188-298-15314	Sequence 15314, A
148	60.4	441	11	US-11-188-298-13775	Sequence 13775, A	221	28	58.3	473	11	US-11-087-099-8865	Sequence 8865, App
149	60.4	461	11	US-11-072-512-2367	Sequence 2367, App	222	28	58.3	485	11	US-11-096-5684-7992	Sequence 7902, App
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151	60.4	512	11	US-11-087-099-3997	Sequence 3997, App	224	28	58.3	486	11	US-11-188-298-22007	Sequence 22007, A
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253	28	58.3	850	11	US-11-188-298-5993	Sequence 5993, Ap	326	27	56.2	324	9	US-11-096-568A-25533	Sequence 25533, A
254	28	58.3	856	11	US-11-054-281-116	Sequence 116, App	327	27	56.2	329	9	US-11-156-084-293	Sequence 1460, Ap
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256	28	58.3	939	11	US-11-188-298-10003	Sequence 10003, A	329	27	56.2	332	11	US-11-188-298-13440	Sequence 13440, A
257	28	58.3	943	11	US-11-079-463-9310	Sequence 9310, Ap	330	27	56.2	332	11	US-11-188-298-13440	Sequence 13440, A
258	28	58.3	1032	11	US-11-014-367-3	Sequence 3, Appl1	331	27	56.2	333	9	US-10-137-873A-1332	Sequence 1332, App
259	28	58.3	1032	11	US-11-087-099-1095	Sequence 1095, Ap	332	27	56.2	333	9	US-10-973-115B-1332	Sequence 1332, App
259	28	58.3	1126	11	US-11-087-099-1095	Sequence 1095, Ap	333	27	56.2	333	9	US-10-973-115B-1332	Sequence 1332, App
260	28	58.3	1126	11	US-11-087-099-2533	Sequence 2533, Ap	334	27	56.2	333	9	US-10-137-873A-1332	Sequence 1332, App
261	28	58.3	1130	11	US-11-087-099-6723	Sequence 6723, Ap	335	27	56.2	333	9	US-10-137-873A-1332	Sequence 1332, App
262	28	58.3	1196	11	US-11-072-512-2933	Sequence 2933, Ap	336	27	56.2	334	11	US-11-096-568A-25532	Sequence 25532, A
263	28	58.3	1210	11	US-11-113-202-6	Sequence 6, Appl1	337	27	56.2	336	11	US-11-188-298-17125	Sequence 17125, A
264	28	58.3	1210	11	US-11-145-566-1	Sequence 1, Appl1	338	27	56.2	336	11	US-11-188-298-17125	Sequence 17125, A
265	28	58.3	1294	11	US-11-188-298-9622	Sequence 9622, Ap	339	27	56.2	336	11	US-11-188-298-17125	Sequence 17125, A
266	28	58.3	1294	11	US-11-188-298-9622	Sequence 9622, Ap	340	27	56.2	338	11	US-11-172-740-136	Sequence 136, Ap
267	28	58.3	1367	9	US-10-510-903-10	Sequence 510, Appl	341	27	56.2	344	11	US-11-188-298-22047	Sequence 22047, A
268	28	58.3	1367	9	US-10-510-903-10	Sequence 510, Appl	342	27	56.2	344	11	US-11-188-298-22047	Sequence 22047, A
269	28	58.3	1367	9	US-10-510-903-10	Sequence 510, Appl	343	27	56.2	346	11	US-11-188-298-21405	Sequence 21405, A
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271	28	58.3	1368	9	US-11-186-284-26	Sequence 26, Appl	345	27	56.2	353	11	US-11-188-298-17563	Sequence 17563, A
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273	27	56.2	64	11	US-11-188-298-20871	Sequence 20871, A	347	27	56.2	371	11	US-11-188-298-8260	Sequence 8260, Ap
274	27	56.2	92	9	US-10-485-788A-786	Sequence 786, App	348	27	56.2	374	11	US-11-087-099-1572	Sequence 1572, Ap
275	27	56.2	92	11	US-11-053-076-168	Sequence 168, App	349	27	56.2	379	11	US-11-096-568A-29822	Sequence 29822, A
276	27	56.2	97	9	US-10-475-075-306	Sequence 306, App	350	27	56.2	380	11	US-11-087-099-1795	Sequence 1795, Ap
277	27	56.2	97	9	US-10-475-075-347	Sequence 347, App	351	27	56.2	381	11	US-11-096-568A-29002	Sequence 29002, A
278	27	56.2	105	11	US-11-155-775-112	Sequence 12, Appl	352	27	56.2	388	11	US-11-046-668-7	Sequence 7, Appl1
279	27	56.2	122	11	US-11-045-004-1112	Sequence 1112, Ap	353	27	56.2	389	11	US-11-188-298-20396	Sequence 20396, A
280	27	56.2	123	11	US-11-132-947-10	Sequence 10, Appl	354	27	56.2	393	11	US-11-045-004-2248	Sequence 2248, Ap
281	27	56.2	127	11	US-11-193-512-92	Sequence 92, Appl	355	27	56.2	393	11	US-11-188-298-16789	Sequence 16789, A
282	27	56.2	127	11	US-11-193-512-98	Sequence 98, Appl	356	27	56.2	394	11	US-11-052-5544A-79	Sequence 79, Appl
283	27	56.2	127	11	US-11-193-512-103	Sequence 103, App	357	27	56.2	395	11	US-11-172-740-435	Sequence 435, App
284	27	56.2	132	9	US-10-511-130-30	Sequence 30, Appl	358	27	56.2	397	11	US-11-172-740-434	Sequence 434, App
285	27	56.2	134	11	US-11-169-041-226	Sequence 226, App	359	27	56.2	402	11	US-11-046-668-9	Sequence 9, Appl1
286	27	56.2	134	11	US-11-045-004-2476	Sequence 2476, App	360	27	56.2	408	11	US-11-188-298-8377	Sequence 8377, Ap
287	27	56.2	146	11	US-11-096-568A-16341	Sequence 16341, A	361	27	56.2	408	11	US-11-188-298-18172	Sequence 18172, A
288	27	56.2	152	11	US-11-132-947-12	Sequence 12, Appl	362	27	56.2	402	11	US-11-188-298-19148	Sequence 19148, A
289	27	56.2	161	11	US-11-096-568A-10019	Sequence 10019, A	363	27	56.2	405	11	US-11-188-298-11243	Sequence 11243, A
290	27	56.2	161	11	US-11-172-740-1237	Sequence 1237, Ap	364	27	56.2	412	9	US-10-858-730-82	Sequence 82, Appl1
291	27	56.2	162	11	US-11-096-568A-16340	Sequence 16340, A	365	27	56.2	414	11	US-11-096-568A-12745	Sequence 12745, A
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293	27	56.2	172	11	US-11-188-298-3879	Sequence 3879, Ap	367	27	56.2	414	11	US-11-188-298-11713	Sequence 11713, A
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295	27	56.2	193	11	US-11-072-512-2762	Sequence 2762, Ap	369	27	56.2	427	11	US-11-188-298-14337	Sequence 14337, A
296	27	56.2	200	9	US-11-079-463-6181	Sequence 6181, Ap	370	27	56.2	431	11	US-11-188-298-3618	Sequence 3618, A
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298	27	56.2	211	11	US-11-188-298-21549	Sequence 21549, A	372	27	56.2	442	11	US-11-055-882-814	Sequence 814, App
299	27	56.2	216	11	US-11-045-004-449	Sequence 449, App	373	27	56.2	463	11	US-11-188-298-12080	Sequence 12080, A
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301	27	56.2	235	9	US-10-453-372-408	Sequence 408, App	375	27	56.2	467	11	US-11-188-298-19675	Sequence 19675, A
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303	27	56.2	239	9	US-10-453-372-400	Sequence 400, App	377	27	56.2	485	11	US-11-188-298-9759	Sequence 9759, Ap
304	27	56.2	239	9	US-10-453-372-402	Sequence 402, App	378	27	56.2	486	11	US-11-024-959-279	Sequence 279, App
305	27	56.2	239	9	US-10-453-372-404	Sequence 404, App	379	27	56.2	491	9	US-10-506-454-338	Sequence 338, App
306	27	56.2	248	11	US-11-096-568A-10018	Sequence 10018, A	380	27	56.2	494	11	US-11-188-298-1445	Sequence 1445, Ap
307	27	56.2	262	9	US-10-455-772-216	Sequence 216, App	381	27	56.2	500	9	US-10-524-647-20	Sequence 9605, Ap
308	27	56.2	269	11	US-11-096-568A-29824	Sequence 29824, A	382	27	56.2	500	9	US-10-524-972-20	Sequence 20, Appl1
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312	27	56.2	293	11	US-11-096-568A-26793	Sequence 26793, A	386	27	56.2	501	11	US-11-087-099-8133	Sequence 8133, Ap
313	27	56.2	293	11	US-11-172-740-1238	Sequence 1238, Ap	386	27	56.2	501	11	US-11-087-099-8133	Sequence 8133, Ap

387	27	56.2	501	11	US-11-087-099-9295	Sequence 9295, Ap	460	27	56.2	1121	11	US-11-087-099-10482	Sequence 10482, A
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389	27	56.2	503	11	US-11-087-099-9082	Sequence 9082, Ap	462	27	56.2	1216	11	US-10-873-5588-12	Sequence 12, Appl1
390	27	56.2	510	11	US-11-045-004-1519	Sequence 1519, Ap	463	27	56.2	1224	11	US-11-096-5688-27581	Sequence 27581, A
391	27	56.2	511	11	US-11-055-822-698	Sequence 698, App	464	27	56.2	1240	11	US-11-096-5688-27580	Sequence 27580, A
392	27	56.2	513	11	US-11-087-099-7631	Sequence 7631, App	465	27	56.2	1282	9	US-10-510-9411-18	Sequence 18, Appl1
393	27	56.2	513	11	US-11-087-099-11726	Sequence 11726, A	466	27	56.2	1287	11	US-11-037-743-72	Sequence 72, Appl1
394	27	56.2	516	11	US-11-216-267-36	Sequence 36, Appl1	467	27	56.2	1341	11	US-11-188-298-21361	Sequence 21361, A
395	27	56.2	516	11	US-11-223-382-36	Sequence 36, Appl1	468	27	56.2	1649	9	US-10-995-561-974	Sequence 974, App
396	27	56.2	521	9	US-10-455-772-212	Sequence 212, Appl1	469	27	56.2	1694	11	US-11-135-855-36	Sequence 36, Appl1
397	27	56.2	533	11	US-11-214-199-63	Sequence 63, Appl1	470	27	56.2	1700	9	US-10-453-372-998	Sequence 398, App
398	27	56.2	537	11	US-11-087-099-2165	Sequence 2165, Ap	471	27	56.2	1700	9	US-10-453-372-112	Sequence 412, App
399	27	56.2	572	11	US-11-201-916-25	Sequence 25, Appl1	472	27	56.2	1700	9	US-10-453-372-114	Sequence 414, App
400	27	56.2	590	9	US-10-330-773-124	Sequence 124, App	473	27	56.2	1700	9	US-10-453-372-116	Sequence 416, App
401	27	56.2	594	9	US-10-330-773-121	Sequence 121, App	474	27	56.2	1700	9	US-10-453-372-418	Sequence 418, App
402	27	56.2	595	9	US-10-455-772-214	Sequence 214, App	475	27	56.2	1709	9	US-10-995-561-973	Sequence 973, App
403	27	56.2	595	9	US-10-455-772-224	Sequence 224, App	476	27	56.2	1709	9	US-10-453-372-410	Sequence 410, App
404	27	56.2	595	9	US-10-455-772-226	Sequence 226, App	477	27	56.2	1709	11	US-11-135-855-35	Sequence 35, Appl1
405	27	56.2	595	9	US-10-455-772-228	Sequence 228, App	478	27	56.2	1733	11	US-11-182-016-21	Sequence 21, Appl1
406	27	56.2	595	9	US-10-455-772-230	Sequence 230, App	479	27	56.2	1766	11	US-11-075-185-10	Sequence 10, Appl1
407	27	56.2	595	9	US-10-455-772-232	Sequence 232, App	480	27	56.2	1849	9	US-10-506-454-1148	Sequence 1148, App
408	27	56.2	595	9	US-10-455-772-234	Sequence 234, App	481	27	56.2	1897	9	US-10-821-234-1635	Sequence 1635, Ap
409	27	56.2	595	9	US-10-455-772-236	Sequence 236, App	482	27	56.2	1907	11	US-11-000-463-250	Sequence 250, App
410	27	56.2	595	9	US-10-455-772-238	Sequence 238, App	483	27	56.2	3969	9	US-10-974-1274-59	Sequence 59, Appl1
411	27	56.2	595	9	US-10-455-772-240	Sequence 240, App	484	26	54.2	15	9	US-10-530-061-1750	Sequence 1750, App
412	27	56.2	595	9	US-10-455-772-242	Sequence 242, App	485	26	54.2	46	9	US-10-467-657-6682	Sequence 6682, Ap
413	27	56.2	596	9	US-10-455-772-220	Sequence 220, App	486	26	54.2	47	9	US-10-467-657-6698	Sequence 6698, Ap
414	27	56.2	596	9	US-10-455-772-222	Sequence 222, App	487	26	54.2	50	9	US-10-467-657-6698	Sequence 6698, Ap
415	27	56.2	604	9	US-10-455-772-218	Sequence 218, App	488	26	54.2	57	11	US-11-264-096-2241	Sequence 2241, Ap
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417	27	56.2	624	11	US-11-079-463-7504	Sequence 7504, Ap	490	26	54.2	61	11	US-11-079-463-7072	Sequence 7072, Ap
418	27	56.2	628	11	US-11-087-099-8127	Sequence 8127, Ap	491	26	54.2	72	9	US-10-467-657-6668	Sequence 6668, Ap
419	27	56.2	645	11	US-11-188-298-18561	Sequence 18561, A	492	26	54.2	107	9	US-10-530-233-37	Sequence 37, Appl1
420	27	56.2	668	11	US-11-188-298-768	Sequence 768, App	493	26	54.2	111	9	US-10-485-7884-781	Sequence 781, App
421	27	56.2	682	11	US-11-072-512-2390	Sequence 2390, App	494	26	54.2	111	11	US-11-053-076-163	Sequence 163, App
422	27	56.2	706	11	US-11-188-298-11914	Sequence 11914, A	495	26	54.2	115	11	US-11-079-463-8332	Sequence 8392, Ap
423	27	56.2	743	9	US-10-915-002-194	Sequence 194, App	496	26	54.2	133	11	US-11-096-5688-11187	Sequence 1187, A
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425	27	56.2	753	11	US-11-077-619-48	Sequence 48, Appl1	498	26	54.2	150	11	US-11-038-676-20	Sequence 20, Appl1
426	27	56.2	753	11	US-11-188-298-1188	Sequence 1188, App	499	26	54.2	153	9	US-10-506-454-388	Sequence 388, App
427	27	56.2	753	11	US-11-188-298-3250	Sequence 3250, App	500	26	54.2	158	11	US-11-038-676-30	Sequence 30, Appl1
428	27	56.2	753	11	US-11-188-298-3394	Sequence 3394, App	501	26	54.2	160	11	US-11-096-5688-28091	Sequence 28091, A
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430	27	56.2	753	11	US-11-188-298-7931	Sequence 7931, App	503	26	54.2	167	11	US-11-235-198-38	Sequence 38, Appl1
431	27	56.2	753	11	US-11-188-298-9131	Sequence 9131, App	504	26	54.2	168	11	US-11-072-512-2688	Sequence 2688, App
432	27	56.2	753	11	US-11-188-298-10266	Sequence 10266, A	505	26	54.2	169	11	US-11-188-298-20585	Sequence 20585, A
433	27	56.2	753	11	US-11-188-298-10836	Sequence 10836, A	506	26	54.2	170	9	US-10-467-657-104	Sequence 104, App
434	27	56.2	753	11	US-11-188-298-11157	Sequence 11157, A	507	26	54.2	170	9	US-10-467-657-8078	Sequence 8078, App
435	27	56.2	753	11	US-11-188-298-15649	Sequence 15649, A	508	26	54.2	172	9	US-10-821-234-1338	Sequence 1338, App
436	27	56.2	753	11	US-11-188-298-15937	Sequence 15937, A	509	26	54.2	184	9	US-10-980-388-106	Sequence 106, App
437	27	56.2	753	11	US-11-188-298-16233	Sequence 16233, A	510	26	54.2	188	9	US-10-506-454-393	Sequence 393, App
438	27	56.2	753	11	US-11-188-298-18969	Sequence 18969, A	511	26	54.2	190	11	US-11-087-099-8048	Sequence 8048, App
439	27	56.2	753	11	US-11-188-298-19779	Sequence 19779, A	512	26	54.2	190	11	US-11-188-298-11087	Sequence 11087, A
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441	27	56.2	753	11	US-11-188-298-20212	Sequence 20212, A	514	26	54.2	197	9	US-10-784-004-473	Sequence 373, App
442	27	56.2	753	11	US-11-188-298-22446	Sequence 22446, A	515	26	54.2	197	9	US-10-784-004-333	Sequence 333, App
443	27	56.2	753	11	US-11-098-686-11087	Sequence 11087, A	516	26	54.2	199	11	US-11-096-5688-3318	Sequence 3318, App
444	27	56.2	762	11	US-11-087-099-9342	Sequence 342, App	517	26	54.2	201	9	US-10-878-5564-3	Sequence 3, Appl1
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447	27	56.2	775	9	US-10-516-099-2	Sequence 2, Appl1	520	26	54.2	210	11	US-11-087-099-12364	Sequence 12364, A
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449	27	56.2	822	11	US-11-200-2968-67	Sequence 67, Appl1	522	26	54.2	228	11	US-11-096-5688-4389	Sequence 4389, App
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453	27	56.2	934	11	US-11-096-5688-30088	Sequence 30088, A	526	26	54.2	232	11	US-11-096-5688-28090	Sequence 28090, A
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456	27	56.2	994	11	US-11-096-5688-30054	Sequence 30054, A	529	26	54.2	238	9	US-10-793-626-20	Sequence 20, Appl1
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458	27	56.2	1019	11	US-11-079-463-7842	Sequence 7842, App	531	26	54.2	244	11	US-11-096-5688-19010	Sequence 19010, A
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534	26	54.2	259	9	US-10-131-826A-304	Sequence 304, App	607	26	54.2	396	9	US-10-501-035-204	Sequence 204, App
535	26	54.2	259	9	US-10-973-115B-304	Sequence 304, App	608	26	54.2	396	9	US-10-931-198-6	Sequence 6, App11
536	26	54.2	259	9	US-10-137-873A-304	Sequence 304, App	609	26	54.2	396	9	US-10-942-042-6	Sequence 6, App11
537	26	54.2	259	9	US-10-152-370-304	Sequence 304, App	610	26	54.2	396	11	US-11-051-568-5	Sequence 5, App11
538	26	54.2	259	11	US-11-390-153-304	Sequence 304, App	611	26	54.2	396	11	US-11-096-568A-17324	Sequence 17324, A
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545	26	54.2	270	9	US-10-506-454-1415	Sequence 1415, Ap	618	26	54.2	402	11	US-11-188-298-14038	Sequence 14038, A
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569	26	54.2	333	11	US-11-188-298-2233	Sequence 2233, Ap	642	26	54.2	442	11	US-11-172-740-457	Sequence 457, App
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571	26	54.2	335	11	US-11-188-298-18290	Sequence 18290, A	644	26	54.2	444	11	US-11-172-740-461	Sequence 461, App
572	26	54.2	336	11	US-11-087-099-6092	Sequence 6092, Ap	645	26	54.2	444	11	US-11-172-740-716	Sequence 716, App
573	26	54.2	336	11	US-11-188-298-2907	Sequence 2907, Ap	646	26	54.2	445	11	US-11-172-740-458	Sequence 458, App
574	26	54.2	336	11	US-11-188-298-4654	Sequence 4654, Ap	647	26	54.2	445	11	US-11-172-740-460	Sequence 460, App
575	26	54.2	337	11	US-11-079-463-8325	Sequence 8325, Ap	648	26	54.2	445	11	US-11-172-740-462	Sequence 462, App
576	26	54.2	337	11	US-11-188-298-5688	Sequence 5688, Ap	649	26	54.2	445	11	US-11-172-740-464	Sequence 464, App
577	26	54.2	338	11	US-11-096-568A-30980	Sequence 30980, A	650	26	54.2	445	11	US-11-172-740-465	Sequence 465, App
578	26	54.2	341	9	US-10-506-454-619	Sequence 619, App	651	26	54.2	445	11	US-11-172-740-467	Sequence 467, App
579	26	54.2	341	11	US-11-188-298-2695	Sequence 2695, Ap	652	26	54.2	445	11	US-11-172-740-469	Sequence 469, App
580	26	54.2	342	11	US-11-188-298-4673	Sequence 4673, Ap	653	26	54.2	445	11	US-11-172-740-708	Sequence 708, App
581	26	54.2	344	11	US-11-188-298-19120	Sequence 19120, A	654	26	54.2	445	11	US-11-172-740-709	Sequence 709, App
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584	26	54.2	349	11	US-11-188-298-13346	Sequence 13346, A	657	26	54.2	445	11	US-11-172-740-715	Sequence 715, App
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586	26	54.2	350	11	US-11-108-528-72	Sequence 72, App1	659	26	54.2	446	11	US-11-096-568A-10370	Sequence 10370, A
587	26	54.2	354	11	US-11-108-528-74	Sequence 74, App1	660	26	54.2	447	11	US-11-172-740-463	Sequence 463, App
588	26	54.2	354	11	US-11-188-298-4983	Sequence 4983, Ap	661	26	54.2	447	11	US-11-172-740-466	Sequence 466, App
589	26	54.2	362	9	US-10-517-939-88	Sequence 88, App1	662	26	54.2	447	11	US-11-172-740-468	Sequence 468, App
590	26	54.2	364	11	US-11-087-099-7580	Sequence 7580, Ap	663	26	54.2	447	11	US-11-172-740-470	Sequence 470, App
591	26	54.2	365	11	US-11-096-568A-22910	Sequence 22910, A	664	26	54.2	447	11	US-11-172-740-472	Sequence 472, App
592	26	54.2	366	11	US-11-188-298-11252	Sequence 11252, A	665	26	54.2	447	11	US-11-172-740-713	Sequence 713, App
593	26	54.2	367	11	US-11-096-568A-29694	Sequence 29694, A	666	26	54.2	448	9	US-10-763-712A-69	Sequence 69, App1
594	26	54.2	368	11	US-11-188-298-3038	Sequence 3038, Ap	667	26	54.2	448	9	US-10-763-712A-112	Sequence 112, App
595	26	54.2	369	11	US-11-096-568A-17906	Sequence 17906, A	668	26	54.2	449	11	US-11-098-886-10535	Sequence 10535, A
596	26	54.2	376	9	US-10-201-525-7	Sequence 7, App11	669	26	54.2	449	11	US-11-096-568A-31741	Sequence 31741, A
597	26	54.2	377	9	US-10-201-525-5	Sequence 5, App11	670	26	54.2	452	11	US-11-098-886-10297	Sequence 10297, A
598	26	54.2	377	11	US-11-121-731A-3	Sequence 3, App11	671	26	54.2	455	11	US-11-098-886-10297	Sequence 10297, A
599	26	54.2	379	11	US-11-185-033-4	Sequence 9, App11	672	26	54.2	460	11	US-11-096-568A-6785	Sequence 6785, Ap
600	26	54.2	380	9	US-10-201-525-9	Sequence 9, App11	673	26	54.2	462	11	US-10-755-032-25	Sequence 25, App1
601	26	54.2	380	11	US-11-096-568A-29693	Sequence 29693, A	674	26	54.2	463	9	US-10-488-015-17	Sequence 17, App1
602	26	54.2	380	11	US-11-185-033-33	Sequence 33, App1	675	26	54.2	464	8	US-11-082-289-784	Sequence 284, App
603	26	54.2	385	11	US-11-096-568A-17325	Sequence 17325, A	676	26	54.2	465	11	US-11-096-568A-1517	Sequence 1517, Ap
604	26	54.2	394	11	US-11-087-099-3167	Sequence 3167, Ap	677	26	54.2	465	11	US-11-096-568A-1517	Sequence 1517, Ap
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679	26	54.2	466	11	US-11-096-568A-22805	Sequence 22805, A	752	26	54.2	620	11	US-11-058-727-20	Sequence 20, Appl
680	26	54.2	467	11	US-11-096-568A-10369	Sequence 10369, A	753	26	54.2	620	11	US-11-108-389-20	Sequence 20, Appl
681	26	54.2	468	11	US-11-096-568A-18730	Sequence 18730, A	754	26	54.2	620	11	US-11-624-624-20	Sequence 20, Appl
682	26	54.2	471	11	US-11-024-959-399	Sequence 399, App	755	26	54.2	622	11	US-11-045-004-780	Sequence 780, App
683	26	54.2	472	11	US-11-087-099-11838	Sequence 11838, A	756	26	54.2	630	11	US-11-096-568A-30539	Sequence 30539, A
684	26	54.2	473	11	US-11-087-099-528	Sequence 528, App	757	26	54.2	638	11	US-11-188-298-7838	Sequence 7838, Ap
685	26	54.2	473	11	US-11-087-099-8140	Sequence 8140, Ap	758	26	54.2	640	11	US-11-096-568A-31263	Sequence 31263, A
686	26	54.2	476	11	US-11-096-568A-10368	Sequence 10368, A	759	26	54.2	641	11	US-11-096-568A-30538	Sequence 30538, A
687	26	54.2	478	11	US-11-096-568A-18729	Sequence 18729, A	760	26	54.2	646	11	US-11-096-568A-30537	Sequence 30537, A
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689	26	54.2	484	11	US-11-096-568A-22965	Sequence 22965, A	762	26	54.2	669	11	US-11-058-727-6	Sequence 6, Appl
690	26	54.2	484	11	US-11-188-298-16281	Sequence 16281, A	763	26	54.2	669	11	US-11-058-727-12	Sequence 12, Appl
691	26	54.2	484	11	US-11-188-298-18120	Sequence 18120, A	764	26	54.2	669	11	US-11-108-389-12	Sequence 6, Appl
692	26	54.2	494	11	US-11-188-298-573	Sequence 573, App	765	26	54.2	669	11	US-11-108-389-12	Sequence 12, Appl
693	26	54.2	496	11	US-11-188-298-17398	Sequence 17398, A	766	26	54.2	669	11	US-11-224-624-6	Sequence 6, Appl
694	26	54.2	498	11	US-11-096-568A-31740	Sequence 31740, A	767	26	54.2	669	11	US-11-224-624-12	Sequence 12, Appl
695	26	54.2	499	11	US-11-087-099-10769	Sequence 10769, A	768	26	54.2	673	11	US-11-058-727-8	Sequence 8, Appl
696	26	54.2	499	11	US-11-096-568A-20412	Sequence 20412, A	769	26	54.2	673	11	US-11-058-727-14	Sequence 14, Appl
697	26	54.2	499	11	US-11-188-298-9952	Sequence 9952, Ap	770	26	54.2	673	11	US-11-058-727-22	Sequence 22, Appl
698	26	54.2	505	9	US-10-703-799B-292	Sequence 292, App	771	26	54.2	673	11	US-11-058-727-26	Sequence 26, Appl
699	26	54.2	511	11	US-11-045-004-42	Sequence 42, Appl	772	26	54.2	673	11	US-11-058-727-30	Sequence 30, Appl
700	26	54.2	516	9	US-10-506-448A-2	Sequence 2, Appl	773	26	54.2	673	11	US-11-058-727-34	Sequence 34, Appl
701	26	54.2	516	11	US-11-087-099-1845	Sequence 1845, Ap	774	26	54.2	673	11	US-11-058-727-54	Sequence 54, Appl
702	26	54.2	524	9	US-10-995-561-789	Sequence 789, App	775	26	54.2	673	11	US-11-058-727-56	Sequence 56, Appl
703	26	54.2	525	11	US-11-079-463-8434	Sequence 8434, Ap	776	26	54.2	673	11	US-11-058-727-58	Sequence 58, Appl
704	26	54.2	527	11	US-11-096-568A-1516	Sequence 1516, Ap	777	26	54.2	673	11	US-11-058-727-60	Sequence 60, Appl
705	26	54.2	527	11	US-11-096-568A-22804	Sequence 22804, A	778	26	54.2	673	11	US-11-058-727-62	Sequence 62, Appl
706	26	54.2	527	11	US-11-096-568A-26860	Sequence 26860, A	779	26	54.2	673	11	US-11-058-727-64	Sequence 64, Appl
707	26	54.2	528	9	US-10-978-927-6	Sequence 6, Appl	780	26	54.2	673	11	US-11-058-727-66	Sequence 66, Appl
708	26	54.2	529	11	US-11-079-463-9534	Sequence 9534, Ap	781	26	54.2	673	11	US-11-058-727-68	Sequence 68, Appl
709	26	54.2	531	11	US-11-096-568A-20411	Sequence 20411, A	782	26	54.2	673	11	US-11-058-727-70	Sequence 70, Appl
710	26	54.2	536	10	US-11-183-218-24	Sequence 24, Appl	783	26	54.2	673	11	US-11-058-727-86	Sequence 86, Appl
711	26	54.2	536	11	US-11-183-205-24	Sequence 24, Appl	784	26	54.2	673	11	US-11-058-727-88	Sequence 88, Appl
712	26	54.2	538	11	US-11-096-568A-22803	Sequence 22803, A	785	26	54.2	673	11	US-11-058-727-90	Sequence 90, Appl
713	26	54.2	540	11	US-11-099-691-2	Sequence 2, Appl	786	26	54.2	673	11	US-11-058-727-92	Sequence 92, Appl
714	26	54.2	544	11	US-11-096-568A-20410	Sequence 20410, A	787	26	54.2	673	11	US-11-058-727-94	Sequence 94, Appl
715	26	54.2	547	8	US-10-511-937-3969	Sequence 2969, Ap	788	26	54.2	673	11	US-11-108-389-8	Sequence 8, Appl
716	26	54.2	547	9	US-10-995-561-785	Sequence 785, App	789	26	54.2	673	11	US-11-108-389-14	Sequence 14, Appl
717	26	54.2	547	9	US-10-995-561-787	Sequence 787, App	790	26	54.2	673	11	US-11-108-389-26	Sequence 26, Appl
718	26	54.2	547	9	US-10-493-909-65	Sequence 65, Appl	791	26	54.2	673	11	US-11-108-389-28	Sequence 28, Appl
719	26	54.2	547	9	US-10-501-841-114	Sequence 114, Appl	792	26	54.2	673	11	US-11-108-389-34	Sequence 34, Appl
720	26	54.2	547	11	US-11-107-028-24	Sequence 24, Appl	793	26	54.2	673	11	US-11-108-389-54	Sequence 54, Appl
721	26	54.2	548	11	US-11-188-298-6827	Sequence 6827, Ap	794	26	54.2	673	11	US-11-108-389-56	Sequence 56, Appl
722	26	54.2	553	11	US-11-087-099-9177	Sequence 9177, Ap	795	26	54.2	673	11	US-11-108-389-58	Sequence 58, Appl
723	26	54.2	556	11	US-11-096-568A-25960	Sequence 25960, A	796	26	54.2	673	11	US-11-108-389-64	Sequence 64, Appl
724	26	54.2	557	11	US-11-188-298-8022	Sequence 8022, Ap	797	26	54.2	673	11	US-11-108-389-66	Sequence 66, Appl
725	26	54.2	557	11	US-11-188-298-9316	Sequence 9316, Ap	798	26	54.2	673	11	US-11-108-389-68	Sequence 68, Appl
726	26	54.2	565	11	US-11-087-099-6955	Sequence 6955, Ap	799	26	54.2	673	11	US-11-108-389-66	Sequence 66, Appl
727	26	54.2	567	11	US-11-096-568A-29411	Sequence 29411, A	800	26	54.2	673	11	US-11-108-389-64	Sequence 64, Appl
728	26	54.2	568	11	US-11-188-298-8765	Sequence 8765, Ap	801	26	54.2	673	11	US-11-108-389-70	Sequence 70, Appl
729	26	54.2	571	11	US-11-188-298-20583	Sequence 20583, A	802	26	54.2	673	11	US-11-108-389-86	Sequence 86, Appl
730	26	54.2	577	11	US-11-096-568A-1515	Sequence 1515, Ap	803	26	54.2	673	11	US-11-108-389-88	Sequence 88, Appl
731	26	54.2	580	11	US-11-096-568A-25959	Sequence 25959, A	804	26	54.2	673	11	US-11-108-389-88	Sequence 88, Appl
732	26	54.2	580	11	US-11-096-568A-18064	Sequence 18064, A	805	26	54.2	673	11	US-11-108-389-90	Sequence 90, Appl
733	26	54.2	582	11	US-11-188-298-9047	Sequence 9047, Ap	806	26	54.2	673	11	US-11-108-389-92	Sequence 92, Appl
734	26	54.2	584	11	US-11-096-568A-31265	Sequence 31265, A	807	26	54.2	673	11	US-11-108-389-94	Sequence 94, Appl
735	26	54.2	591	11	US-11-096-568A-31982	Sequence 31982, A	808	26	54.2	673	11	US-11-224-624-8	Sequence 8, Appl
736	26	54.2	592	11	US-11-188-298-422	Sequence 422, App	809	26	54.2	673	11	US-11-224-624-14	Sequence 14, Appl
737	26	54.2	593	11	US-11-188-298-11962	Sequence 11982, A	810	26	54.2	673	11	US-11-224-624-22	Sequence 22, Appl
738	26	54.2	593	11	US-11-188-298-14123	Sequence 14123, A	811	26	54.2	673	11	US-11-224-624-26	Sequence 26, Appl
739	26	54.2	593	11	US-11-188-298-18740	Sequence 18740, A	812	26	54.2	673	11	US-11-224-624-30	Sequence 30, Appl
740	26	54.2	594	11	US-11-188-298-18849	Sequence 18849, A	813	26	54.2	673	11	US-11-224-624-34	Sequence 34, Appl
741	26	54.2	595	11	US-11-188-298-18101	Sequence 18101, A	814	26	54.2	673	11	US-11-224-624-54	Sequence 54, Appl
742	26	54.2	595	11	US-11-188-298-20667	Sequence 20667, A	815	26	54.2	673	11	US-11-224-624-56	Sequence 56, Appl
743	26	54.2	600	11	US-11-188-298-14041	Sequence 14041, A	816	26	54.2	673	11	US-11-224-624-58	Sequence 58, Appl
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745	26	54.2	610	11	US-11-096-568A-31264	Sequence 31264, A	818	26	54.2	673	11	US-11-224-624-62	Sequence 62, Appl
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ALIGNMENTS

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; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EXS/M-M
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1711
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1711
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Db 3 YMLDLOPRT 11
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US-10-511-814-8
; Sequence 8, Application US/10511814
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; Publication No. US20060088472A1
; GENERAL INFORMATION:
; APPLICANT: McCance, Dennis
; APPLICANT: Westbrock, III, Thomas F.
; TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
; FILE REFERENCE: 21108.0016U2
; CURRENT FILING DATE: 2004-10-19
; PRIOR APPLICATION NUMBER: US/10/511,814
; PRIOR FILING DATE: 2003-04-21
; PRIOR APPLICATION NUMBER: PCT/US03/12667
; PRIOR FILING DATE: 2002-04-19
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 98
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; ORGANISM: Artificial Sequence
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US-10-511-814-8
; OTHER INFORMATION: Synthetic Construct
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Best Local Similarity 100.0%; Pred. No. 0.014;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 11 YMLDLOPRT 19
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US-10-511-814-11
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; Publication No. US20060088472A1
; GENERAL INFORMATION:
; APPLICANT: McCance, Dennis
; APPLICANT: Westbrock, III, Thomas F.
; TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
; FILE REFERENCE: 21108.0016U2
; CURRENT FILING DATE: 2004-10-19
; PRIOR APPLICATION NUMBER: US/10/511,814
; PRIOR FILING DATE: 2003-04-21
; PRIOR APPLICATION NUMBER: PCT/US03/12667
; PRIOR FILING DATE: 2002-04-19
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
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US-10-511-814-11
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RESULT 4
US-10-530-253-14
; Sequence 14, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
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APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 14
LENGTH: 98
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-530-253-14

Query Match 100.0%; Score 48; DB 9; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.014;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YMLDLOPET 9
Db 11 YMLDLOPET 19

RESULT 5
US-11-179-478-4
Sequence 4, Application US/11179478
Publication No. US20050249745A1
GENERAL INFORMATION:

APPLICANT: BURGER, Alexander
APPLICANT: HALBEK, Michael
TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
TITLE OF INVENTION: FORMULATIONS AND METHODS OF USE
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/11/179,478
FILING DATE: 13-JULY-2005

CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/10/654,129
FILING DATE: 04-Sep-2003

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:
NAME: Sandercok, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-11-179-478-4

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Best Local Similarity 100.0%; Pred. No. 0.014;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YMLDLOPET 9
Db 11 YMLDLOPET 19

RESULT 6
US-10-530-253-1
Sequence 1, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Cassetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 1
LENGTH: 248
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-530-253-1

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Best Local Similarity 100.0%; Pred. No. 0.039;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YMLDLOPET 9
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RESULT 7

US-10-530-253-3
Sequence 3, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:

APPLICANT: Cassetti, Maria C.

APPLICANT: Smith, Larry

APPLICANT: Jeffrey K. Pullen

APPLICANT: Susan P. McElhinney

TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS

FILE REFERENCE: 00630/100M137-US2

CURRENT APPLICATION NUMBER: US/10/530,253

CURRENT FILING DATE: 2005-04-04

PRIOR APPLICATION NUMBER: PCT/US2003/031726

PRIOR FILING DATE: 2003-10-02

PRIOR APPLICATION NUMBER: US 60/415,929

PRIOR FILING DATE: 2002-10-03

NUMBER OF SEQ ID NOS: 65

SOFTWARE: PatentIn version 3.1

SEQ ID NO 3

LENGTH: 248

TYPE: PRT

ORGANISM: Human papillomavirus type 16
US-10-530-253-3

Query Match 100.0%; Score 48; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.039;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YMLDLOPET 9

Db 161 YMLDLOPRT 169

RESULT 8
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-5

Query Match 100.0%; Score 48; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.039;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YMLDLOPRT 9
Db 161 YMLDLOPRT 169

RESULT 9
US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-7

Query Match 100.0%; Score 48; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.039;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YMLDLOPRT 9
Db 11 YMLDLOPRT 19

RESULT 10

US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-9

Query Match 100.0%; Score 48; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.039;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YMLDLOPRT 9
Db 11 YMLDLOPRT 19

RESULT 11
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-11

Query Match 100.0%; Score 48; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.039;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YMLDLOPRT 9
Db 11 YMLDLOPRT 19

RESULT 12
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
; APPLICANT: PANG, XIAOWU

```
/ TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
/ FILE REFERENCE: 116620-003
/ CURRENT APPLICATION NUMBER: US/11/192,923A
/ PRIOR FILING DATE: 2005-07-29
/ PRIOR APPLICATION NUMBER: CN 03115272.4
/ PRIOR FILING DATE: 2003-01-30
/ PRIOR APPLICATION NUMBER: CN 03115273.2
/ PRIOR FILING DATE: 2003-01-30
/ NUMBER OF SEQ ID NOS: 45
/ SOFTWARE: PatentIn Ver. 3.3
/ SEQ ID NO: 2
/ LENGTH: 256
/ TYPE: PRF
/ ORGANISM: Human papillomavirus
US-11-192-923A-2

Query Match          100.0%; Score 48; DB 11; Length 256;
Best Local Similarity 100.0%; Pred. No. 0.04;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDLOPET 9
DB 11 YMLDLOPET 19

RESULT 13
US-10-530-061-1731
/ Sequence 1731, Application US/10530061
/ Publication No. US20060079453A1
/ GENERAL INFORMATION:
/ APPLICANT: SOUTHWOOD, JOHN
/ APPLICANT: SETTE, ALESSANDRO
/ TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
/ FILE REFERENCE: 2060.033US02/EKS/M-W
/ CURRENT APPLICATION NUMBER: US/10/530,061
/ CURRENT FILING DATE: 2005-04-04
/ PRIOR APPLICATION NUMBER: PCT/US03/31308
/ PRIOR FILING DATE: 2003-10-03
/ PRIOR APPLICATION NUMBER: 60/416,207
/ PRIOR FILING DATE: 2002-10-03
/ PRIOR APPLICATION NUMBER: 60/417,269
/ PRIOR FILING DATE: 2002-10-08
/ NUMBER OF SEQ ID NOS: 2503
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 1731
/ LENGTH: 15
/ TYPE: PRF
/ ORGANISM: Human papillomavirus
US-10-530-061-1731

Query Match          91.7%; Score 44; DB 9; Length 15;
Best Local Similarity 88.9%; Pred. No. 0.01;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDLOPET 9
DB 3 YMLDLOPET 11

RESULT 14
US-10-530-253-34
/ Sequence 34, Application US/10530253
/ Publication No. US20060014926A1
/ GENERAL INFORMATION:
/ APPLICANT: Casasetti, Maria C.
/ APPLICANT: Smith, Larry
/ APPLICANT: Jeffrey K. Pullen
/ APPLICANT: Susan P. McWhinney
/ TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
/ FILE REFERENCE: 00630/100M17-US2
/ CURRENT APPLICATION NUMBER: US/10/530,253
```

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/ CURRENT FILING DATE: 2005-04-04
/ PRIOR APPLICATION NUMBER: PCT/US2003/031726
/ PRIOR FILING DATE: 2003-10-02
/ PRIOR APPLICATION NUMBER: US 60/415,929
/ PRIOR FILING DATE: 2002-10-03
/ NUMBER OF SEQ ID NOS: 65
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 34
/ LENGTH: 99
/ TYPE: PRF
/ ORGANISM: Human papillomavirus type 52
US-10-530-253-34

Query Match          91.7%; Score 44; DB 9; Length 99;
Best Local Similarity 88.9%; Pred. No. 0.086;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDLOPET 9
DB 11 YMLDLOPET 19

RESULT 15
US-10-530-061-1749
/ Sequence 1749, Application US/10530061
/ Publication No. US20060079453A1
/ GENERAL INFORMATION:
/ APPLICANT: SIDNEY, JOHN
/ APPLICANT: SOUTHWOOD, SCOTT
/ APPLICANT: SETTE, ALESSANDRO
/ TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
/ FILE REFERENCE: 2060.033US02/EKS/M-W
/ CURRENT APPLICATION NUMBER: US/10/530,061
/ CURRENT FILING DATE: 2005-04-04
/ PRIOR APPLICATION NUMBER: PCT/US03/31308
/ PRIOR FILING DATE: 2003-10-03
/ PRIOR APPLICATION NUMBER: 60/416,207
/ PRIOR FILING DATE: 2002-10-03
/ PRIOR APPLICATION NUMBER: 60/417,269
/ PRIOR FILING DATE: 2002-10-08
/ NUMBER OF SEQ ID NOS: 2503
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 1749
/ LENGTH: 15
/ TYPE: PRF
/ ORGANISM: Human papillomavirus
US-10-530-061-1749

Query Match          85.4%; Score 41; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.041;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 MLDLOPET 9
DB 1 MLDLOPET 8

RESULT 16
US-10-530-061-1720
/ Sequence 1720, Application US/10530061
/ Publication No. US20060079453A1
/ GENERAL INFORMATION:
/ APPLICANT: SIDNEY, JOHN
/ APPLICANT: SOUTHWOOD, SCOTT
/ APPLICANT: SETTE, ALESSANDRO
/ TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
/ FILE REFERENCE: 2060.033US02/EKS/M-W
/ CURRENT APPLICATION NUMBER: US/10/530,061
/ CURRENT FILING DATE: 2005-04-04
/ PRIOR APPLICATION NUMBER: PCT/US03/31308
/ PRIOR FILING DATE: 2003-10-03
/ PRIOR APPLICATION NUMBER: 60/416,207
/ PRIOR FILING DATE: 2002-10-03
```

; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 1720
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1720

Query Match 81.2%; Score 39; DB 9; Length 15;
Best Local Similarity 87.5%; Pred. No. 0.1;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDLOPE 8
Db 3 YVLDLQPE 10

RESULT 17
US-10-530-253-28
; Sequence 28, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 28
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type 31
US-10-530-253-28

Query Match 81.2%; Score 39; DB 9; Length 98;
Best Local Similarity 87.5%; Pred. No. 0.84;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDLOPE 8
Db 11 YVLDLQPE 18

RESULT 18
US-10-530-253-30
; Sequence 30, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 30

; LENGTH: 99
; TYPE: PRT
; ORGANISM: Human papillomavirus type 35
US-10-530-253-30

Query Match 75.0%; Score 36; DB 9; Length 99;
Best Local Similarity 75.0%; Pred. No. 3.3;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDLOPE 8
Db 11 YVLDLQPE 18

RESULT 19
US-10-467-657-5266
; Sequence 5266, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SPA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO: 5266
; LENGTH: 395
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-5266

Query Match 72.9%; Score 35; DB 9; Length 395;
Best Local Similarity 75.0%; Pred. No. 25;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 MLDLQPE 9
Db 364 MLDLQPE 371

RESULT 20
US-10-530-061-1745
; Sequence 1745, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 1745
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1745

Query Match 70.8%; Score 34; DB 9; Length 15;
 Best Local Similarity 75.0%; Pred. No. 1;
 Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 YMLDLOPE 8
 ||:|||||
 DB 3 YILDLPHE 10

RESULT 21

US-10-530-061-1751
 ; Sequence 1751, Application US/10530061
 ; Publication No. US20060079453A1
 ; GENERAL INFORMATION:
 ; APPLICANT: SIDNEY, JOHN
 ; APPLICANT: SOUTHWOOD, SCOTT
 ; APPLICANT: SETTE, ALESSANDRO
 ; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
 ; FILE REFERENCE: 2060.033US02/EKS/W-M
 ; CURRENT APPLICATION NUMBER: US/10/530,061
 ; PRIOR FILING DATE: 2005-04-04
 ; PRIOR APPLICATION NUMBER: PCT/US03/31308
 ; PRIOR FILING DATE: 2003-10-03
 ; PRIOR APPLICATION NUMBER: 60/416,207
 ; PRIOR FILING DATE: 2002-10-03
 ; PRIOR APPLICATION NUMBER: 60/417,269
 ; PRIOR FILING DATE: 2002-10-08
 ; NUMBER OF SEQ ID NOS: 2503
 ; SOFTWARE: PatentIn version 3.3
 ; SEQ ID NO 1751
 ; LENGTH: 15
 ; TYPE: PRT
 ; ORGANISM: Human papillomavirus
 US-10-530-061-1751

Query Match 70.8%; Score 34; DB 9; Length 15;
 Best Local Similarity 75.0%; Pred. No. 1;
 Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 YMLDLOPE 8
 ||:|||||
 DB 4 YILDLPHE 11

RESULT 22

US-10-530-253-36
 ; Sequence 36, Application US/10530253
 ; Publication No. US20060014926A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Casasetti, Maria C.
 ; APPLICANT: Smith, Larry
 ; APPLICANT: Jeffrey K. Pullen
 ; APPLICANT: Susan P. McElhinney
 ; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
 ; FILE REFERENCE: 00630/100M137-US2
 ; CURRENT APPLICATION NUMBER: US/10/530,253
 ; CURRENT FILING DATE: 2005-04-04
 ; PRIOR APPLICATION NUMBER: PCT/US2003/031726
 ; PRIOR FILING DATE: 2003-10-02
 ; PRIOR APPLICATION NUMBER: US 60/415,929
 ; PRIOR FILING DATE: 2002-10-03
 ; NUMBER OF SEQ ID NOS: 65
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 36
 ; LENGTH: 98
 ; TYPE: PRT
 ; ORGANISM: Human papillomavirus type 58
 US-10-530-253-36

Query Match 70.8%; Score 34; DB 9; Length 98;
 Best Local Similarity 75.0%; Pred. No. 8.2;
 Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 YMLDLOPE 8
 ||:|||||
 DB 11 YILDLPHE 18

RESULT 23

US-11-188-298-3960
 ; Sequence 3960, Application US/11188298
 ; Publication No. US20060075522A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Abad, Mark S. et al.
 ; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
 ; FILE REFERENCE: 38-21(53452)B
 ; CURRENT APPLICATION NUMBER: US/11/188,298
 ; PRIOR FILING DATE: 2005-07-22
 ; PRIOR APPLICATION NUMBER: 60/592,978
 ; PRIOR FILING DATE: 2004-07-31
 ; NUMBER OF SEQ ID NOS: 22569
 ; SEQ ID NO 3960
 ; LENGTH: 324
 ; TYPE: PRT
 ; ORGANISM: Neisseria meningitidis MC58
 US-11-188-298-3960

Query Match 70.8%; Score 34; DB 11; Length 324;
 Best Local Similarity 85.7%; Pred. No. 31;
 Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 MLDLOPE 8
 ||:|||||
 DB 293 MLDLOPE 299

RESULT 24

US-11-087-099-10725
 ; Sequence 10725, Application US/11087099
 ; Publication No. US20060041961A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Abad, Mark S. et al.
 ; TITLE OF INVENTION: Genes and Uses for Plant Improvement
 ; FILE REFERENCE: 38-21(53450)B BP
 ; CURRENT APPLICATION NUMBER: US/11/087,099
 ; CURRENT FILING DATE: 2005-03-22
 ; NUMBER OF SEQ ID NOS: 12464
 ; SEQ ID NO 10725
 ; LENGTH: 646
 ; TYPE: PRT
 ; ORGANISM: Candida albicans
 US-11-087-099-10725

Query Match 70.8%; Score 34; DB 11; Length 646;
 Best Local Similarity 85.7%; Pred. No. 68;
 Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 MLDLOPE 8
 ||:|||||
 DB 66 MLDLOPE 72

RESULT 25

US-11-188-298-9913
 ; Sequence 9913, Application US/11188298
 ; Publication No. US20060075522A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Abad, Mark S. et al.
 ; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
 ; FILE REFERENCE: 38-21(53452)B
 ; CURRENT APPLICATION NUMBER: US/11/188,298
 ; PRIOR FILING DATE: 2005-07-22
 ; PRIOR APPLICATION NUMBER: 60/592,978
 ; PRIOR FILING DATE: 2004-07-31
 ; NUMBER OF SEQ ID NOS: 22569
 ; SEQ ID NO 9913

LENGTH: 646
TYPE: PRT
ORGANISM: Candida albicans
US-11-188-298-9913

Query Match
Best Local Similarity 70.8%; Score 34; DB 11; Length 646;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 MIDLOPE 8
|:|||||
Db 66 MIDLOPE 72

RESULT 26
US-11-087-099-8952
Sequence 8952, Application US/11087099
Publication No. US20060041961A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: Genes and Uses for Plant Improvement
FILE REFERENCE: 38-21(53450)B EP
CURRENT APPLICATION NUMBER: US/11/087,099
CURRENT FILING DATE: 2005-03-22
NUMBER OF SEQ ID NOS: 12464
SEQ ID NO 8952
LENGTH: 698
TYPE: PRT
ORGANISM: Candida albicans
US-11-087-099-8952

Query Match
Best Local Similarity 70.8%; Score 34; DB 11; Length 698;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 MIDLOPE 8
|:|||||
Db 66 MIDLOPE 72

RESULT 27
US-11-087-099-9341
Sequence 9341, Application US/11087099
Publication No. US20060041961A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: Genes and Uses for Plant Improvement
FILE REFERENCE: 38-21(53450)B EP
CURRENT APPLICATION NUMBER: US/11/087,099
CURRENT FILING DATE: 2005-03-22
NUMBER OF SEQ ID NOS: 12464
SEQ ID NO 9341
LENGTH: 698
TYPE: PRT
ORGANISM: Candida albicans
US-11-087-099-9341

Query Match
Best Local Similarity 70.8%; Score 34; DB 11; Length 698;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 MIDLOPE 8
|:|||||
Db 66 MIDLOPE 72

RESULT 28
US-11-188-298-8685
Sequence 8685, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT

FILE REFERENCE: 38-21(53452)B
CURRENT APPLICATION NUMBER: US/11/188,298
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 8685
LENGTH: 698
TYPE: PRT
ORGANISM: Candida albicans
US-11-188-298-8685

Query Match
Best Local Similarity 70.8%; Score 34; DB 11; Length 698;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 MIDLOPE 8
|:|||||
Db 66 MIDLOPE 72

RESULT 29
US-11-188-298-19289
Sequence 19289, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53452)B
CURRENT APPLICATION NUMBER: US/11/188,298
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 19289
LENGTH: 698
TYPE: PRT
ORGANISM: Candida albicans
US-11-188-298-19289

Query Match
Best Local Similarity 70.8%; Score 34; DB 11; Length 698;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 MIDLOPE 8
|:|||||
Db 66 MIDLOPE 72

RESULT 30
US-11-218-020-15
Sequence 15, Application US/11218020
Publication No. US20060073562A1
GENERAL INFORMATION:
APPLICANT: Sameison, Lawrence E.
TITLE OF INVENTION: The Protein Tyrosine Kinase Substrate LAT and Its Use in the
FILE REFERENCE: NIH-05065
CURRENT APPLICATION NUMBER: US/11/218,020
CURRENT FILING DATE: 2005-08-31
PRIOR APPLICATION NUMBER: US/09/597,920
PRIOR FILING DATE: 2000-06-19
PRIOR APPLICATION NUMBER: PCT/US98/27400
PRIOR FILING DATE: 1998-12-23
NUMBER OF SEQ ID NOS: 19
SOFTWARE: PatentIn version 3.1
SEQ ID NO 15
LENGTH: 896
TYPE: PRT
ORGANISM: Homo sapiens
US-11-218-020-15

QY 2 MIDLOPE 8
|:|||||
Db 66 MIDLOPE 72

Query Match 70.8%; Score 34; DB 11; Length 896;
Best Local Similarity 66.7%; Pred. No. 98;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 YMLDLOPE 9
|:|:|:|:
DB 81 YLIDLDPDT 89

RESULT 31
US-10-511-937-2429
; Sequence 2429, Application US/10511937
; Publication No. US2006008836A1
; GENERAL INFORMATION:
; APPLICANT: EXPRESSION DIAGNOSTICS, INC.
; APPLICANT: Mohlgemuth, Jay
; APPLICANT: Fry, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
; APPLICANT: Prentice, James
; APPLICANT: Morris, MacDonald
; APPLICANT: Rosenberg, Steven
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING
; FILE REFERENCE: 506612000104
; CURRENT FILING DATE: 2004-10-19
; PRIOR FILING DATE: 2003-04-24
; PRIOR APPLICATION NUMBER: US 10/131,831
; PRIOR FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: US 10/325,899
; NUMBER OF SEQ ID NOS: 3117
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2429
; LENGTH: 1039
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-511-937-2429

Query Match 70.8%; Score 34; DB 8; Length 1039;
Best Local Similarity 62.5%; Pred. No. 1.2e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 YMLDLOPE 8
|:|:|:|:
DB 845 YLIDLDPQ 852

RESULT 32
US-10-530-061-1724
; Sequence 1724, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT FILING DATE: 2005-04-04
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1724
; LENGTH: 15
; TYPE: PRT

; ORGANISM: Human papillomavirus
US-10-530-061-1724

Query Match 68.8%; Score 33; DB 9; Length 15;
Best Local Similarity 75.0%; Pred. No. 1.6;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 YMLDLOPE 8
|:|:|:|:
DB 3 YLIDLYPE 10

RESULT 33
US-10-530-253-29
; Sequence 29, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT FILING DATE: 2005-04-04
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 29
; LENGTH: 97
; TYPE: PRT
; ORGANISM: Human papillomavirus type 33
US-10-530-253-29

Query Match 68.8%; Score 33; DB 9; Length 97;
Best Local Similarity 75.0%; Pred. No. 13;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 YMLDLOPE 8
|:|:|:|:
DB 11 YLIDLYPE 18

RESULT 34
US-11-188-298-18028
; Sequence 18028, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT FILING DATE: 2005-07-22
; PRIOR FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 18028
; LENGTH: 257
; TYPE: PRT
; ORGANISM: Pisum sativum
US-11-188-298-18028

Query Match 68.8%; Score 33; DB 11; Length 257;
Best Local Similarity 66.7%; Pred. No. 38;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 YMLDLOPE 9
|:|:|:|:
DB 49 FXDLDPET 57

```
RESULT 35
US-11-072-512-2534
; Sequence 2534, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YUKI
; APPLICANT: OTSUKA, KAKURU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHITO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOMYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: 084335-0191
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US/11/072,512
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2534
; LENGTH: 384
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-072-512-2534
```

```
Query Match      68.8%; Score 33; DB 11; Length 384;
Best Local Similarity 55.6%; Pred. No. 60;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 YMLDQPRT 9
Db      92 HLLERLQPT 100
```

```
RESULT 36
US-11-188-298-18665
; Sequence 18665, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: US/11/188,298
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 18665
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Bacillus subtilis subsp. subtilis str. 168
US-11-188-298-18665
```

```
Query Match      68.8%; Score 33; DB 11; Length 398;
Best Local Similarity 66.7%; Pred. No. 63;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 YMLDQPRT 9
```

```
Db      87 YGIDDPRT 95
```

```
RESULT 37
US-11-188-298-286
; Sequence 286, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: US/11/188,298
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 286
; LENGTH: 486
; TYPE: PRT
; ORGANISM: Bacillus subtilis subsp. subtilis str. 168
US-11-188-298-286
```

```
Query Match      68.8%; Score 33; DB 11; Length 486;
Best Local Similarity 66.7%; Pred. No. 78;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 YMLDQPRT 9
Db      175 YGIDDPRT 183
```

```
RESULT 38
US-11-087-099-4252
; Sequence 4252, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 4252
; LENGTH: 510
; TYPE: PRT
; ORGANISM: Nicotiana tabacum
US-11-087-099-4252
```

```
Query Match      68.8%; Score 33; DB 11; Length 510;
Best Local Similarity 75.0%; Pred. No. 83;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      2 MLDQPRT 9
Db      3 LLDLQPT 10
```

```
RESULT 39
US-11-188-298-14373
; Sequence 14373, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: US/11/188,298
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 14373
; LENGTH: 510
```


TYPE: PRT
ORGANISM: Nicotiana tabacum
US-11-188-298-14373

Query Match 68.8%; Score 33; DB 11; Length 510;
Best Local Similarity 75.0%; Pred. No. 83;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 MLDLQPERT 9
DB 3 LLDLQPERT 10

RESULT 40
US-11-087-099-6798
Sequence 6798, Application US/11087099
Publication No. US20060041961A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: Genes and Uses for Plant Improvement
FILE REFERENCE: 38-21(53450)B EP
CURRENT APPLICATION NUMBER: US/11/087,099
CURRENT FILING DATE: 2005-03-22
NUMBER OF SEQ ID NOS: 12464
SEQ ID NO 6798
LENGTH: 512
TYPE: PRT
ORGANISM: Glomerella cingulata
US-11-087-099-6798

Query Match 68.8%; Score 33; DB 11; Length 512;
Best Local Similarity 75.0%; Pred. No. 83;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 YMLDQPERT 8
DB 49 YKLDLRPE 56

RESULT 41
US-10-131-826A-332
Sequence 332, Application US/10131826A
Publication No. US20050245730A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330R1C128
CURRENT APPLICATION NUMBER: US/10/131,826A
CURRENT FILING DATE: 2002-04-24
PRIOR APPLICATION NUMBER: 60/049911
PRIOR FILING DATE: 1997-06-18
PRIOR APPLICATION NUMBER: 60/056974
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 60/059113
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059115

PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059117
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059122
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059184
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059263
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/059352
PRIOR FILING DATE: 1997-09-19
PRIOR APPLICATION NUMBER: 60/059588
PRIOR FILING DATE: 1997-09-19
Remaining Prior Application data removed - See file wrapper or PALM.
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 332
LENGTH: 552
TYPE: PRT
ORGANISM: Homo Sapien
US-10-131-826A-332

Query Match 68.8%; Score 33; DB 9; Length 552;
Best Local Similarity 66.7%; Pred. No. 90;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 YMLDQPERT 9
DB 308 YFLTVQPERT 316

RESULT 42
US-10-973-115B-332
Sequence 332, Application US/10973115B
Publication No. US20060040351A1
GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODIN
FILE REFERENCE: 39870-3330R1C300C1
CURRENT APPLICATION NUMBER: US/10/973,115B
CURRENT FILING DATE: 2004-10-22
PRIOR APPLICATION NUMBER: US 10/145,747
PRIOR FILING DATE: 2002-05-14
PRIOR APPLICATION NUMBER: US 10/028,072
PRIOR FILING DATE: 2001-12-19
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: 2000-12-01
PRIOR APPLICATION NUMBER: US 09/581,742
PRIOR FILING DATE: 2000-06-16
PRIOR APPLICATION NUMBER: PCT/US00/05746
PRIOR FILING DATE: 2000-03-02
PRIOR APPLICATION NUMBER: US 60/135,736
PRIOR FILING DATE: 1999-05-25
PRIOR APPLICATION NUMBER: US 60/123,090
PRIOR FILING DATE: 1999-03-05
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 332

LENGTH: 552
TYPE: PRT
ORGANISM: Homo sapiens
US-10-973-1158-332

Query Match 68.8%; Score 33; DB 9; Length 552;
Best Local Similarity 66.7%; Pred. No. 90;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY 1 YMLDOPET 9
Db 308 YFLVQPET 316

RESULT 43
US-10-137-873A-332
Sequence 332, Application US/10137873A
Publication No. US20060084138A1
GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
TITLE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P333ORIC149
CURRENT APPLICATION NUMBER: US/10/137, 873A
CURRENT FILING DATE: 2002-04-23
PRIOR APPLICATION NUMBER: 60/049911
PRIOR FILING DATE: 1997-06-18
PRIOR APPLICATION NUMBER: 60/056974
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 60/059113
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059115
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059117
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/051222
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059184
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059263
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/059352
PRIOR FILING DATE: 1997-09-19
PRIOR APPLICATION NUMBER: 60/059588
PRIOR FILING DATE: 1997-09-19
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 332
LENGTH: 552
TYPE: PRT
ORGANISM: Homo Sapien
US-10-137-873A-332

Query Match 68.8%; Score 33; DB 9; Length 552;
Best Local Similarity 66.7%; Pred. No. 90;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY 1 YMLDOPET 9
Db 308 YFLVQPET 316

RESULT 44
US-10-152-370-332
Sequence 332, Application US/10152370
Publication No. US20060084139A1
GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
TITLE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P333ORIC407
CURRENT APPLICATION NUMBER: US/10/152, 370
CURRENT FILING DATE: 2002-05-21
Prior Application removed - See file Wrapper or Palm
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 332
LENGTH: 552
TYPE: PRT
ORGANISM: Homo Sapien
US-10-152-370-332

Query Match 68.8%; Score 33; DB 9; Length 552;
Best Local Similarity 66.7%; Pred. No. 90;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY 1 YMLDOPET 9
Db 308 YFLVQPET 316

RESULT 45
US-11-290-153-332
Sequence 332, Application US/11290153
Publication No. US20060073568A1
GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
TITLE OF INVENTION: ACIDS ENCODING THE SAME

```
FILE REFERENCE: P333081C321
CURRENT APPLICATION NUMBER: US/11/290,153
CURRENT FILING DATE: 2005-11-30
PRIOR APPLICATION NUMBER: US/10/146,728
PRIOR FILING DATE: 2002-05-15
PRIOR APPLICATION NUMBER: 60/049911
PRIOR FILING DATE: 1997-06-18
PRIOR APPLICATION NUMBER: 60/056974
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 60/059113
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059115
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059117
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059122
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059184
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059263
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/059352
PRIOR FILING DATE: 1997-09-19
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 332
LENGTH: 552
TYPE: PRT
ORGANISM: Homo Sapien
US-11-290-153-332
```

```
Query Match      68.8%; Score 33; DB 11; Length 552;
Best Local Similarity 66.7%; Pred. No. 90;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 YMLDLPRT 9
      | | | | |
Db      308 YFLTVQPERT 316
```

```
RESULT 46
US-10-995-561-1012
; Sequence 1012, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1012
; LENGTH: 935
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-995-561-1012
```

```
Query Match      68.8%; Score 33; DB 9; Length 935;
Best Local Similarity 66.7%; Pred. No. 1.6e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 YMLDLPRT 9
      | | | | |
Db      920 YDIDLDPRT 928
```

```
RESULT 47
US-10-995-561-1013
; Sequence 1013, Application US/10995561
; Publication No. US20050272054A1
```

```
GENERAL INFORMATION:
APPLICANT: CARGILL, Michele et al.
TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
FILE REFERENCE: CL001559
CURRENT APPLICATION NUMBER: US/10/995,561
CURRENT FILING DATE: 2004-11-24
NUMBER OF SEQ ID NOS: 85702
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 1013
LENGTH: 935
TYPE: PRT
ORGANISM: Homo sapiens
US-10-995-561-1013
```

```
Query Match      68.8%; Score 33; DB 9; Length 935;
Best Local Similarity 66.7%; Pred. No. 1.6e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 YMLDLPRT 9
      | | | | |
Db      920 YDIDLDPRT 928
```

```
RESULT 48
US-10-877-346-43
; Sequence 43, Application US/10877346
; Publication No. US20060014153A1
; GENERAL INFORMATION:
; APPLICANT: Gerlach, Valerie L
; APPLICANT: MacDougall, John R
; APPLICANT: Smithson, Glenda
; APPLICANT: Miller, Isabelle
; APPLICANT: Stone, David
; APPLICANT: Gunther, Erik
; APPLICANT: Ellerman, Karen
; APPLICANT: Grosse, William M
; APPLICANT: Alsobrook II, John P
; APPLICANT: Lepley, Denise M
; APPLICANT: Burgess, Catherine E
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Kerkuda, Ramesh
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Leach, Martin D
; APPLICANT: Shinkels, Richard A
; TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-124
; CURRENT APPLICATION NUMBER: US/10/877,346
; CURRENT FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: US/09/964,956
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/235,631
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,633
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,808
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,064
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; PRIOR APPLICATION NUMBER: 60/236,065
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,066
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,135
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/237,434
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/238,321
; PRIOR FILING DATE: 2000-10-05
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; NUMBER OF SEQ ID NOS: 127
; SOFTWARE: PatentIn Ver. 2.1
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ORGANISM: Homo sapiens
US-10-877-346-43

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Best Local Similarity 66.7%; Pred. No. 3.7e+02;
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Db 323 YFLTVQPET 331

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Sequence 1264, Application US/11045004
Publication No. US20060078901A1
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APPLICANT: BUCHRIESER, CARMEN
APPLICANT: FRANGEUL, LIONEL
APPLICANT: COUVE, ELISABETH
APPLICANT: RUSNIOK, CHRISTOPHE
APPLICANT: FSIHI, HAFIDA
APPLICANT: DEHOUX, PIERRE
APPLICANT: DUSURGERT, OLIVIER
APPLICANT: CHETOUANI, FARID
APPLICANT: NEDJARI, HAFED
APPLICANT: GLASER, PHILIPPE
APPLICANT: KUNST, FRANCK
APPLICANT: COSSART, PASCAL
APPLICANT: DANIELS, JUSTIN
APPLICANT: GOEBEL, WERNER
APPLICANT: KREFT, JURGEN
APPLICANT: KUHN, MICHAEL
APPLICANT: NG, EVA
APPLICANT: VAZQUEZ-BOLAND, ANTONIO
APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
APPLICANT: GARRIDO-GARCIA, PATRICIA
APPLICANT: TIERREZ-MARTINEZ, ALBERTO
APPLICANT: AMEND, ALEXANDRA
APPLICANT: CHAKRABORTY, TRINAD
APPLICANT: DOMANN, EUGEN
APPLICANT: HAIN, THORSTEN
APPLICANT: BERCHE, PATRICK
APPLICANT: CHARBIT, ALAIN
APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
APPLICANT: BAQUERO, FERNANDO
APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
APPLICANT: GOMEZ-LOPEZ, NURIA
APPLICANT: MADUENIO, ENCARN
APPLICANT: PABLOS, BETRIZ DE
APPLICANT: WEHLAND, JURGEN
APPLICANT: KARST, UWE
APPLICANT: ENTIAN, KARL-DIETER
APPLICANT: HAUF, JORG
APPLICANT: ROSE, MATTHIAS
APPLICANT: VOSS, HAMUT
TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
FILE REFERENCE: 05394.0018-02
CURRENT APPLICATION NUMBER: US/11/045.004
PRIOR FILING DATE: 2005-01-28
PRIOR APPLICATION NUMBER: 10/637,657
PRIOR FILING DATE: 2003-08-11
PRIOR APPLICATION NUMBER: 10/257,023
PRIOR FILING DATE: 2002-10-08
PRIOR APPLICATION NUMBER: PCT/FR01/01118
PRIOR FILING DATE: 2001-04-11
PRIOR APPLICATION NUMBER: FR 00/04,629
PRIOR FILING DATE: 2000-04-11
NUMBER OF SEQ ID NOS: 2854

SOFTWARE: Patentin version 3.3
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LENGTH: 276
TYPE: PRT
ORGANISM: Listeria monocytogenes
US-11-045-004-1264

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Best Local Similarity 85.7%; Pred. No. 66;
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Sequence 391, Application US/11045004
Publication No. US20060078901A1
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APPLICANT: FRANGEUL, LIONEL
APPLICANT: COUVE, ELISABETH
APPLICANT: RUSNIOK, CHRISTOPHE
APPLICANT: FSIHI, HAFIDA
APPLICANT: DEHOUX, PIERRE
APPLICANT: DUSURGERT, OLIVIER
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APPLICANT: COSSART, PASCAL
APPLICANT: DANIELS, JUSTIN
APPLICANT: GOEBEL, WERNER
APPLICANT: KREFT, JURGEN
APPLICANT: KUHN, MICHAEL
APPLICANT: NG, EVA
APPLICANT: VAZQUEZ-BOLAND, ANTONIO
APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
APPLICANT: GARRIDO-GARCIA, PATRICIA
APPLICANT: TIERREZ-MARTINEZ, ALBERTO
APPLICANT: AMEND, ALEXANDRA
APPLICANT: CHAKRABORTY, TRINAD
APPLICANT: DOMANN, EUGEN
APPLICANT: HAIN, THORSTEN
APPLICANT: BERCHE, PATRICK
APPLICANT: CHARBIT, ALAIN
APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
APPLICANT: BAQUERO, FERNANDO
APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
APPLICANT: GOMEZ-LOPEZ, NURIA
APPLICANT: MADUENIO, ENCARN
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APPLICANT: WEHLAND, JURGEN
APPLICANT: KARST, UWE
APPLICANT: ENTIAN, KARL-DIETER
APPLICANT: HAUF, JORG
APPLICANT: ROSE, MATTHIAS
APPLICANT: VOSS, HAMUT
TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
FILE REFERENCE: 05394.0018-02
CURRENT APPLICATION NUMBER: US/11/045.004
PRIOR FILING DATE: 2005-01-28
PRIOR APPLICATION NUMBER: 10/637,657
PRIOR FILING DATE: 2003-08-11
PRIOR APPLICATION NUMBER: 10/257,023
PRIOR FILING DATE: 2002-10-08
PRIOR APPLICATION NUMBER: PCT/FR01/01118
PRIOR FILING DATE: 2001-04-11
PRIOR APPLICATION NUMBER: FR 00/04,629
PRIOR FILING DATE: 2000-04-11

; NUMBER OF SEQ ID NOS: 2854
 ; SOFTWARE: Patentin version 3.3
 ; SEQ ID NO 391
 ; LENGTH: 291
 ; TYPE: PRT
 ; ORGANISM: *Listeria monocytogenes*
 ; US-11-045-004-391

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Title: US-08-170-344-15

Perfect score: 46
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Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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140	31	67.4	964	2	US-09-962-955D-39	Sequence 39, Appl	213	29	63.0	425	1	US-09-096-776B-8	Sequence 8, Appl1
141	31	67.4	984	1	US-08-673-789-9	Sequence 9, Appl1	214	29	63.0	425	2	US-09-183-228-2	Sequence 2, Appl1
142	31	67.4	984	1	US-08-449-645A-19	Sequence 19, Appl	215	29	63.0	425	2	US-09-923-922-8	Sequence 8, Appl1
143	31	67.4	984	1	US-08-702-367A-19	Sequence 19, Appl	216	29	63.0	425	2	US-09-586-305A-11	Sequence 11, Appl
144	31	67.4	984	1	PCT-US95-04681-19	Sequence 51, Appl	217	29	63.0	425	2	US-08-506-296B-56	Sequence 56, Appl
145	30	65.2	57	2	US-09-832-129-51	Sequence 51, Appl	218	29	63.0	427	2	US-08-506-296B-56	Sequence 18, Appl
146	30	65.2	132	2	US-09-252-991A-19534	Sequence 19534, A	219	29	63.0	431	2	US-09-586-305A-18	Sequence 18, Appl
147	30	65.2	181	2	US-09-513-999C-5797	Sequence 5797, Ap	220	29	63.0	436	2	US-08-840-767-6	Sequence 6, Appl1
148	30	65.2	194	2	US-09-902-540-9979	Sequence 9979, Ap	221	29	63.0	438	2	US-09-586-305A-11	Sequence 11, Appl
149	30	65.2	254	2	US-09-252-991A-17480	Sequence 17480, A	222	29	63.0	438	2	US-09-586-305A-13	Sequence 13, Appl
150	30	65.2	264	2	US-09-543-681A-6354	Sequence 6354, Ap	223	29	63.0	438	2	US-09-586-305A-14	Sequence 14, Appl
151	30	65.2	298	1	US-08-467-963C-8	Sequence 8, Appl1	224	29	63.0	438	2	US-09-586-305A-15	Sequence 15, Appl
152	30	65.2	298	1	US-08-838-189D-8	Sequence 8, Appl1	225	29	63.0	438	2	US-09-586-305A-16	Sequence 16, Appl
153	30	65.2	298	2	US-08-852-344D-8	Sequence 8, Appl1	226	29	63.0	438	2	US-09-586-305A-17	Sequence 17, Appl
154	30	65.2	298	2	US-08-344-639E-8	Sequence 8, Appl1	227	29	63.0	438	2	US-09-586-305A-20	Sequence 20, Appl
155	30	65.2	298	2	US-08-467-969A-8	Sequence 8, Appl1	228	29	63.0	438	2	US-09-586-305A-19	Sequence 19, Appl
156	30	65.2	298	2	US-08-467-961A-8	Sequence 8, Appl1	229	29	63.0	442	2	US-08-506-296B-70	Sequence 70, Appl
157	30	65.2	298	2	US-08-001-554A-8	Sequence 8, Appl1	230	29	63.0	451	2	US-09-949-016-7630	Sequence 7630, Ap
158	30	65.2	331	2	US-09-270-767-33457	Sequence 33457, A	231	29	63.0	466	1	US-07-923-733-2	Sequence 2, Appl1
159	30	65.2	331	2	US-09-270-767-48674	Sequence 48674, A	232	29	63.0	467	2	US-08-701-582D-2	Sequence 2, Appl1
160	30	65.2	375	2	US-09-134-000C-4818	Sequence 4818, Ap	233	29	63.0	467	2	US-08-701-582D-2	Sequence 4, Appl1
161	30	65.2	398	2	US-09-114-000C-5359	Sequence 5359, Ap	234	29	63.0	467	2	US-09-082-039A-2	Sequence 2, Appl1
162	30	65.2	461	2	US-10-104-047-5367	Sequence 2367, Ap	235	29	63.0	467	2	US-09-082-039A-2	Sequence 15, Appl
163	30	65.2	505	2	US-09-729-995-2	Sequence 2, Appl1	236	29	63.0	467	2	US-09-082-039A-15	Sequence 42, Appl
164	30	65.2	505	2	US-09-729-995-4	Sequence 4, Appl1	237	29	63.0	467	2	US-08-840-767-42	Sequence 50, Appl
165	30	65.2	505	2	US-10-135-689-2	Sequence 2, Appl1	238	29	63.0	467	2	US-09-096-776B-7	Sequence 7, Appl1
166	30	65.2	505	2	US-10-135-689-4	Sequence 4, Appl1	239	29	63.0	467	2	US-09-087-134-2	Sequence 2, Appl1
167	30	65.2	505	2	US-10-690-617-2	Sequence 2, Appl1	240	29	63.0	467	2	US-09-087-134-5	Sequence 5, Appl1
168	30	65.2	505	2	US-10-690-617-4	Sequence 4, Appl1	241	29	63.0	467	2	US-09-552-138-2	Sequence 2, Appl1
169	30	65.2	536	2	US-09-600-099-5	Sequence 5, Appl1	242	29	63.0	467	2	US-09-552-138-15	Sequence 15, Appl
170	30	65.2	618	2	US-10-104-047-3605	Sequence 3605, Ap	243	29	63.0	467	2	US-08-580-031A-15	Sequence 15, Appl
171	30	65.2	887	1	US-08-337-494A-4	Sequence 4, Appl1	244	29	63.0	467	2	US-09-923-922-7	Sequence 7, Appl1
172	30	65.2	887	4	PCT-US95-13659-4	Sequence 4, Appl1	245	29	63.0	476	2	US-09-923-922-7	Sequence 14806, A
173	30	65.2	901	2	US-09-538-092-826	Sequence 826, App	246	29	63.0	476	2	US-09-923-922-7	Sequence 14806, A

247	29	63.0	477	2	US-09-113-309-3	Sequence 3, Appl1	320	28	60.9	146	2	US-08-537-871A-37	Sequence 37, Appl1
248	29	63.0	477	2	US-09-521-109-3	Sequence 3, Appl1	321	28	60.9	163	2	US-09-902-540-16815	Sequence 16815, A
249	29	63.0	477	2	US-08-840-767-2	Sequence 3, Appl1	322	28	60.9	166	2	US-09-328-353-5520	Sequence 5250, Ap
250	29	63.0	477	2	US-09-562-332-3	Sequence 3, Appl1	323	28	60.9	174	2	US-09-270-767-33745	Sequence 33745, A
251	29	63.0	485	2	US-09-949-016-7633	Sequence 7633, Ap	324	28	60.9	174	2	US-09-270-767-48962	Sequence 48962, A
252	29	63.0	505	2	US-09-252-991A-29454	Sequence 29454, A	325	28	60.9	179	2	US-09-393-622B-6	Sequence 6, Appl1
253	29	63.0	511	2	US-09-489-039A-14257	Sequence 14257, A	326	28	60.9	187	2	US-09-540-235-3818	Sequence 3818, Ap
254	29	63.0	514	2	US-09-107-532A-4411	Sequence 4411, Ap	327	28	60.9	188	1	US-08-442-063A-39	Sequence 39, Appl
255	29	63.0	523	2	US-09-489-039A-12885	Sequence 12885, A	328	28	60.9	198	2	US-09-981-087A-35	Sequence 25, Appl
256	29	63.0	542	2	US-08-506-296B-69	Sequence 69, Appl	329	28	60.9	198	2	US-09-978-382A-35	Sequence 25, Appl
257	29	63.0	545	2	US-09-328-352-6221	Sequence 6221, Ap	330	28	60.9	198	2	US-09-978-740A-25	Sequence 25, Appl
258	29	63.0	620	2	US-10-104-047-2045	Sequence 2045, Ap	331	28	60.9	198	2	US-09-978-722A-25	Sequence 25, Appl
259	29	63.0	642	2	US-09-107-433-4944	Sequence 4944, Ap	332	28	60.9	198	2	US-09-978-730-25	Sequence 25, Appl
260	29	63.0	653	1	US-08-765-081-7	Sequence 7, Appl1	333	28	60.9	211	2	US-09-602-787A-128	Sequence 128, App
261	29	63.0	663	2	US-09-098-082-7	Sequence 7, Appl1	334	28	60.9	217	1	US-08-874-832-1	Sequence 1, Appl1
262	29	63.0	665	2	US-08-506-296B-68	Sequence 68, Appl	335	28	60.9	217	1	US-08-874-832-2	Sequence 2, Appl1
263	29	63.0	684	2	US-09-543-681A-4908	Sequence 4908, Ap	336	28	60.9	217	1	US-08-874-833-3	Sequence 3, Appl1
264	29	63.0	699	2	US-09-252-991A-17073	Sequence 17073, A	337	28	60.9	217	1	US-08-874-833-4	Sequence 4, Appl1
265	29	63.0	699	2	US-09-489-039A-8133	Sequence 8133, Ap	338	28	60.9	217	2	US-09-097-233-1	Sequence 1, Appl1
266	29	63.0	703	2	US-09-270-767-44732	Sequence 44732, A	339	28	60.9	217	2	US-09-097-233-2	Sequence 2, Appl1
267	29	63.0	703	4	PCT-US95-06994-9	Sequence 9, Appl1	340	28	60.9	217	2	US-09-097-233-3	Sequence 3, Appl1
268	29	63.0	718	2	US-09-583-110-5113	Sequence 5113, Ap	341	28	60.9	217	2	US-09-097-233-4	Sequence 4, Appl1
269	29	63.0	718	2	US-09-417-197-75	Sequence 75, Appl	342	28	60.9	231	2	US-09-543-681A-6221	Sequence 6221, Ap
270	29	63.0	719	2	US-09-417-197-51	Sequence 51, Appl	343	28	60.9	236	1	US-08-442-063A-42	Sequence 42, Appl
271	29	63.0	758	2	US-09-198-452A-996	Sequence 96, App	344	28	60.9	237	1	US-08-469-537A-85	Sequence 85, Appl
272	29	63.0	758	2	US-09-438-185A-926	Sequence 926, App	345	28	60.9	237	2	US-09-149-476-494	Sequence 494, App
273	29	63.0	761	2	US-09-328-352-5942	Sequence 5942, Ap	346	28	60.9	239	2	US-09-902-540-12874	Sequence 12874, A
274	29	63.0	854	2	US-09-902-540-15925	Sequence 15925, A	347	28	60.9	243	2	US-09-270-767-32897	Sequence 32897, A
275	29	63.0	903	2	US-09-252-991A-24977	Sequence 24977, A	348	28	60.9	243	2	US-09-543-681A-4208	Sequence 4208, A
276	29	63.0	970	1	US-08-375-709-7	Sequence 7, Appl1	349	28	60.9	247	2	US-09-543-681A-4208	Sequence 4208, A
277	29	63.0	970	1	US-08-752-929-7	Sequence 7, Appl1	350	28	60.9	252	2	US-07-857-224B-26	Sequence 26, Appl
278	29	63.0	970	2	US-09-090-793-5	Sequence 5, Appl1	351	28	60.9	252	2	US-09-583-110-3515	Sequence 3515, Ap
279	29	63.0	970	2	US-09-231-899-5	Sequence 5, Appl1	352	28	60.9	256	2	US-09-107-433-4151	Sequence 4151, Ap
280	29	63.0	1075	1	US-08-993-228-19	Sequence 19, Appl	353	28	60.9	259	2	US-08-871-572B-6	Sequence 6, Appl1
281	29	63.0	1076	2	US-09-949-016-6610	Sequence 6610, Ap	354	28	60.9	266	2	US-09-252-991A-19949	Sequence 19949, A
282	29	63.0	1100	2	US-09-949-016-7524	Sequence 7524, Ap	355	28	60.9	282	1	US-08-442-063A-45	Sequence 45, Appl
283	29	63.0	1181	2	US-09-352-991A-16880	Sequence 16880, A	356	28	60.9	284	2	US-09-902-540-10431	Sequence 10431, A
284	29	63.0	1253	2	US-08-506-296B-14	Sequence 14, Appl	357	28	60.9	289	2	US-09-902-540-15857	Sequence 15857, A
285	29	63.0	1308	2	US-09-134-000C-6588	Sequence 6588, Ap	358	28	60.9	307	1	US-08-442-063A-48	Sequence 48, Appl
286	29	63.0	4302	2	US-08-658-136-5	Sequence 5, Appl1	359	28	60.9	312	1	US-10-104-047-2822	Sequence 2822, Ap
287	29	63.0	4302	2	US-09-052-469-8	Sequence 8, Appl1	360	28	60.9	314	2	US-09-188-930-193	Sequence 193, App
288	29	63.0	4302	2	US-08-422-582-8	Sequence 8, Appl1	361	28	60.9	314	2	US-09-312-283C-193	Sequence 193, App
289	29	63.0	4302	2	US-09-052-262-8	Sequence 8, Appl1	362	28	60.9	316	2	US-09-188-930-337	Sequence 337, App
290	29	63.0	4303	1	US-08-460-751-2	Sequence 2, Appl1	363	28	60.9	316	2	US-09-312-283C-337	Sequence 337, App
291	29	63.0	4303	2	US-09-479-67A-2	Sequence 2, Appl1	364	28	60.9	319	2	US-09-771-161A-118	Sequence 118, App
292	29	63.0	4303	2	US-09-655-160-2	Sequence 2, Appl1	365	28	60.9	333	1	US-08-442-063A-27	Sequence 27, Appl
293	29	63.0	4339	2	US-09-052-469-6	Sequence 6, Appl1	366	28	60.9	342	1	US-08-272-918-2	Sequence 2, Appl1
294	29	63.0	4339	2	US-08-422-582-6	Sequence 6, Appl1	367	28	60.9	342	1	US-08-619-918-2	Sequence 2, Appl1
295	29	63.0	4339	2	US-09-052-262-6	Sequence 6, Appl1	368	28	60.9	342	4	PCT-US95-08542-2	Sequence 2, Appl1
296	29	63.0	10182	2	US-09-134-001C-3159	Sequence 3159, Ap	369	28	60.9	350	1	US-08-415-751-43	Sequence 43, Appl
297	28	60.9	40	2	US-08-453-485B-100	Sequence 100, App	370	28	60.9	353	6	5340934-4	Patent No. 5340934
298	28	60.9	48	4	PCT-US93-11110-2	Sequence 2, Appl1	371	28	60.9	355	1	US-08-458-555-2	Sequence 2, Appl1
299	28	60.9	65	4	PCT-US93-11110-4	Sequence 4, Appl1	372	28	60.9	357	2	US-09-404-296B-10	Sequence 10, Appl
300	28	60.9	68	2	US-09-248-796A-26015	Sequence 26015, A	373	28	60.9	359	1	US-08-303-238-4	Sequence 4, Appl1
301	28	60.9	73	2	US-09-270-767-38044	Sequence 38044, A	374	28	60.9	359	2	US-08-458-834-4	Sequence 4, Appl1
302	28	60.9	73	2	US-09-270-767-53261	Sequence 53261, A	375	28	60.9	359	2	US-09-538-092-866	Sequence 868, App
303	28	60.9	77	2	US-09-100-802-3	Sequence 3, Appl1	376	28	60.9	359	2	US-09-548-016-6143	Sequence 6143, Ap
304	28	60.9	90	2	US-09-513-999C-4167	Sequence 4167, Ap	377	28	60.9	360	2	US-09-949-016-7925	Sequence 7925, Ap
305	28	60.9	96	1	US-08-442-063A-33	Sequence 33, Appl	378	28	60.9	366	2	US-09-248-796A-17059	Sequence 17059, A
306	28	60.9	99	1	US-08-278-089A-30	Sequence 30, Appl	379	28	60.9	370	2	US-08-657-076-107	Sequence 107, App
307	28	60.9	99	1	US-08-838-957A-29	Sequence 29, Appl	380	28	60.9	370	2	US-09-205-658-107	Sequence 107, App
308	28	60.9	102	1	US-08-710-749-21	Sequence 21, Appl	381	28	60.9	375	2	US-09-252-991A-28105	Sequence 28105, A
309	28	60.9	102	2	US-09-147-875A-18	Sequence 18, Appl	382	28	60.9	377	1	US-08-863-169A-1	Sequence 1, Appl1
310	28	60.9	105	2	US-09-134-000C-5204	Sequence 5204, Ap	383	28	60.9	377	1	US-07-935-087-1	Sequence 1, Appl1
311	28	60.9	110	2	US-09-513-999C-4911	Sequence 4911, Ap	384	28	60.9	377	2	US-07-935-087-1	Sequence 1, Appl1
312	28	60.9	113	2	US-09-553-949-8	Sequence 8, Appl1	385	28	60.9	377	4	PCT-US93-08062-1	Sequence 1, Appl1
313	28	60.9	113	2	US-09-530-139-59	Sequence 59, Appl	386	28	60.9	379	1	US-07-863-169A-5	Sequence 5, Appl1
314	28	60.9	125	2	US-08-537-871A-20	Sequence 20, Appl	387	28	60.9	379	1	US-08-424-268-8	Sequence 8, Appl1
315	28	60.9	125	2	US-08-537-871A-28	Sequence 28, Appl	388	28	60.9	379	1	US-08-429-964-5	Sequence 5, Appl1
316	28	60.9	131	2	US-09-949-016-9319	Sequence 9319, Ap	389	28	60.9	379	2	US-07-935-087-5	Sequence 5, Appl1
317	28	60.9	141	1	US-08-442-063A-36	Sequence 36, Appl	390	28	60.9	379	2	US-09-538-092-1149	Sequence 1149, Ap
318	28	60.9	141	2	US-10-007-761-2	Sequence 2, Appl1	391	28	60.9	379	4	PCT-US93-08062-5	Sequence 5, Appl1
319	28	60.9	145	2	US-09-270-767-42404	Sequence 42404, A	392	28	60.9	379	4	PCT-US93-10442-8	Sequence 8, Appl1

393	28	60.9	392	2	US-09-491-577-90	Sequence 90, Appl	466	28	60.9	1367	2	US-08-746-559A-2	Sequence 2, Appl1
394	28	60.9	395	2	US-09-253-991A-20189	Sequence 20189, A	467	28	60.9	1367	2	US-09-343-551-2	Sequence 2, Appl1
395	28	60.9	403	2	US-09-270-767-46630	Sequence 46690, A	468	28	60.9	1367	2	US-09-949-001-18	Sequence 18, Appl1
396	28	60.9	406	2	US-09-538-092-143	Sequence 143, App	469	28	60.9	1377	2	US-09-949-001-21	Sequence 21, Appl1
397	28	60.9	439	2	US-08-311-771A-178	Sequence 178, App	470	28	60.9	1388	2	US-10-153-469A-10	Sequence 10, Appl1
398	28	60.9	443	2	US-09-902-540-16800	Sequence 16800, A	471	28	60.9	1388	2	US-10-104-889-10	Sequence 10, Appl1
399	28	60.9	453	2	US-09-013-881-5	Sequence 5, Appl1	472	28	60.9	1658	2	US-08-609-049A-13	Sequence 13, Appl1
400	28	60.9	455	2	US-09-612-473-5	Sequence 5, Appl1	473	28	60.9	1658	2	US-09-170-996-13	Sequence 13, Appl1
401	28	60.9	455	2	US-09-240-639-10	Sequence 10, Appl1	474	28	60.9	1666	2	US-09-355-160D-2	Sequence 2, Appl1
402	28	60.9	455	2	US-09-908-510A-10	Sequence 10, Appl1	475	28	60.9	1666	2	US-10-092-219-2	Sequence 2, Appl1
403	28	60.9	455	2	US-09-905-744B-10	Sequence 10, Appl1	476	28	60.9	1766	1	US-08-609-049A-30	Sequence 30, Appl1
404	28	60.9	455	2	US-10-107-660-10	Sequence 10, Appl1	477	28	60.9	1726	2	US-09-170-996-30	Sequence 12, Appl1
405	28	60.9	455	2	US-10-107-576B-10	Sequence 10, Appl1	478	28	60.9	1792	2	US-09-561-818A-12	Sequence 10, Appl1
406	28	60.9	455	2	US-09-905-732B-10	Sequence 10, Appl1	479	28	60.9	1816	2	US-09-561-818A-10	Sequence 4, Appl1
407	28	60.9	455	2	US-09-905-589-10	Sequence 10, Appl1	480	28	60.9	3472	2	US-09-408-020-4	Sequence 2, Appl1
408	28	60.9	455	2	US-10-108-117A-10	Sequence 10, Appl1	481	28	60.9	3829	2	US-09-693-205A-16	Sequence 16, Appl1
409	28	60.9	455	2	US-09-252-991A-31416	Sequence 31416, A	482	28	60.9	3829	2	US-09-693-205A-12	Sequence 4, Appl1
410	28	60.9	476	2	US-09-252-991A-31866	Sequence 31866, A	483	28	60.9	3830	2	US-09-693-205A-4	Sequence 81, Appl1
411	28	60.9	476	2	US-09-489-039A-10167	Sequence 10167, A	484	28	58.7	10	2	US-10-365-908-2	Sequence 2, Appl1
412	28	60.9	485	2	US-08-190-204-2	Sequence 2, Appl1	485	27	58.7	10	2	US-10-365-908-5	Sequence 57, Appl1
413	28	60.9	489	4	PCT-US93-11110-1	Sequence 1, Appl1	486	27	58.7	15	2	US-10-144-929-257	Sequence 50, Appl1
414	28	60.9	489	4	PCT-US93-11110-1	Sequence 1, Appl1	487	27	58.7	19	2	US-10-011-749-50	Sequence 50, Appl1
415	28	60.9	489	6	5221789-1	Patent No. 5,221789	488	27	58.7	19	2	US-09-000-094-50	Sequence 27346, A
416	28	60.9	499	2	US-09-336-643A-8	Sequence 8, Appl1	489	27	58.7	60	2	US-09-248-796A-27346	Sequence 4690, Ap
417	28	60.9	503	2	US-09-949-016-11437	Sequence 11437, A	490	27	58.7	64	2	US-09-563-110-4690	Sequence 4349, Ap
418	28	60.9	508	2	US-09-489-039A-7887	Sequence 7887, Ap	491	27	58.7	78	2	US-09-563-110-4690	Sequence 4349, Ap
419	28	60.9	508	2	US-09-949-016-7311	Sequence 7311, Ap	492	27	58.7	91	2	US-09-513-999C-4319	Sequence 11103, Ap
420	28	60.9	524	2	US-09-949-016-10320	Sequence 10320, A	493	27	58.7	91	2	US-09-107-532A-3719	Sequence 36028

539	27	58.7	167	2	US-09-134-001C-2867	Sequence 2867, Ap	612	27	58.7	326	2	US-09-252-991A-32297	Sequence 32297, A
540	27	58.7	168	2	US-08-444-628-9	Sequence 9, Appl1	613	27	58.7	330	2	US-09-252-991A-18388	Sequence 18388, A
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542	27	58.7	170	1	US-08-313-681A-2	Sequence 2, Appl1	615	27	58.7	331	2	US-10-223-371B-3	Sequence 3, Appl1
543	27	58.7	170	2	US-09-322-911-2	Sequence 2, Appl1	616	27	58.7	336	2	US-09-107-532A-5830	Sequence 5830, Ap
544	27	58.7	170	2	US-09-917-340-32	Sequence 32, Appl1	617	27	58.7	337	1	US-08-440-956A-3	Sequence 3, Appl1
545	27	58.7	171	2	US-08-303-270-1	Sequence 1, Appl1	618	27	58.7	343	2	US-09-801-861-2	Sequence 2, Appl1
546	27	58.7	172	1	US-09-248-796A-19469	Sequence 19469, A	619	27	58.7	343	2	US-10-224-562-2	Sequence 2, Appl1
547	27	58.7	172	2	US-09-134-001C-4696	Sequence 4696, Ap	620	27	58.7	343	2	US-10-786-065-2	Sequence 2, Appl1
548	27	58.7	178	2	US-09-107-532A-6775	Sequence 6775, Ap	621	27	58.7	344	2	US-09-252-991A-31357	Sequence 31357, A
549	27	58.7	180	2	US-09-214-307A-2	Sequence 2, Appl1	622	27	58.7	357	2	US-09-270-767-5423	Sequence 8231, Ap
550	27	58.7	180	2	US-10-054-958-2	Sequence 2, Appl1	623	27	58.7	362	2	US-09-328-352-8231	Sequence 15611, A
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553	27	58.7	190	2	US-09-270-767-32250	Sequence 32250, A	626	27	58.7	369	2	US-09-248-796A-18337	Sequence 18337, A
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555	27	58.7	200	2	US-09-021-290-3	Sequence 3, Appl1	628	27	58.7	375	2	US-09-000-094-22	Sequence 22, Appl1
556	27	58.7	200	2	US-09-572-046-3	Sequence 3, Appl1	629	27	58.7	385	2	US-10-011-749-22	Sequence 2, Appl1
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561	27	58.7	205	2	US-09-902-540-10265	Sequence 10265, A	634	27	58.7	396	2	US-09-489-039A-12215	Sequence 9, Appl1
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565	27	58.7	218	2	US-09-248-796A-25885	Sequence 25885, A	638	27	58.7	408	2	US-09-270-767-42461	Sequence 13, Appl1
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567	27	58.7	227	2	US-09-248-796A-17223	Sequence 17223, A	640	27	58.7	414	2	US-10-274-978-14	Sequence 14, Appl1
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570	27	58.7	235	2	US-09-513-999C-5671	Sequence 5671, Ap	643	27	58.7	418	2	US-09-902-540-15726	Sequence 149, App
571	27	58.7	236	2	US-09-134-001C-3026	Sequence 3026, Ap	644	27	58.7	424	2	US-09-265-585C-149	Sequence 15343, A
572	27	58.7	248	2	US-09-758-759-75	Sequence 75, Appl1	645	27	58.7	425	2	US-09-902-540-15834	Sequence 60705, A
573	27	58.7	256	2	US-09-248-796A-14333	Sequence 14333, A	646	27	58.7	428	2	US-09-270-767-0705	Sequence 5, Appl1
574	27	58.7	256	2	US-09-548-472B-13	Sequence 13, Appl1	647	27	58.7	435	2	US-09-801-861-5	Sequence 5, Appl1
575	27	58.7	257	2	US-09-438-185A-828	Sequence 828, App	648	27	58.7	435	2	US-10-224-562-5	Sequence 5, Appl1
576	27	58.7	258	2	US-09-548-473B-12	Sequence 12, Appl1	649	27	58.7	435	2	US-10-766-065-5	Sequence 4168, Ap
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578	27	58.7	261	1	US-07-857-224B-22	Sequence 22, Appl1	651	27	58.7	440	2	US-09-489-039A-10095	Sequence 42566, A
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582	27	58.7	271	2	US-09-270-767-47824	Sequence 47824, A	655	27	58.7	460	2	US-09-252-991A-17275	Sequence 7900, Ap
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586	27	58.7	274	2	US-09-543-681A-5366	Sequence 5366, Ap	659	27	58.7	470	2	US-09-107-532A-5119	Sequence 1642, Ap
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589	27	58.7	277	2	US-09-186-276B-34	Sequence 34, Appl1	662	27	58.7	481	2	US-09-248-796A-19010	Sequence 15686, A
590	27	58.7	277	2	US-08-842-445-34	Sequence 34, Appl1	663	27	58.7	488	2	US-09-902-540-15686	Sequence 57, Appl1
591	27	58.7	277	2	US-09-186-188B-34	Sequence 34, Appl1	664	27	58.7	498	2	US-09-323-998B-57	Sequence 58, Appl1
592	27	58.7	278	2	US-09-902-540-10008	Sequence 10008, A	665	27	58.7	500	2	US-09-323-998B-58	Sequence 59, Appl1
593	27	58.7	281	2	US-09-902-540-15871	Sequence 15871, A	666	27	58.7	500	2	US-09-323-998B-59	Sequence 56, Appl1
594	27	58.7	284	2	US-09-107-532A-6030	Sequence 6030, Ap	667	27	58.7	502	2	US-09-323-998B-56	Sequence 18, Appl1
595	27	58.7	286	2	US-09-674-741-12	Sequence 12, Appl1	668	27	58.7	508	2	US-09-858-664A-18	Sequence 19, Appl1
596	27	58.7	286	2	US-10-379-010-12	Sequence 12, Appl1	669	27	58.7	508	2	US-10-274-978-19	Sequence 19, Appl1
597	27	58.7	289	2	US-10-151-832-6	Sequence 6, Appl1	670	27	58.7	518	2	US-10-697-263-19	Sequence 19, Appl1
598	27	58.7	289	2	US-10-151-832-8	Sequence 8, Appl1	671	27	58.7	518	2	US-09-252-991A-33063	Sequence 3063, A
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601	27	58.7	294	2	US-09-674-741-17	Sequence 17, Appl1	674	27	58.7	527	2	US-09-543-681A-6795	Sequence 6795, Ap
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603	27	58.7	294	2	US-10-379-010-17	Sequence 17, Appl1	676	27	58.7	533	2	US-09-107-532A-4539	Sequence 4539, Ap
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605	27	58.7	298	2	US-09-858-664A-17	Sequence 17, Appl1	678	27	58.7	539	2	US-09-800-120-16	Sequence 16, Appl1
606	27	58.7	298	2	US-10-274-978-18	Sequence 18, Appl1	679	27	58.7	539	2	US-10-082-894-3	Sequence 3, Appl1
607	27	58.7	298	2	US-10-697-263-18	Sequence 18, Appl1	680	27	58.7	543	2	US-09-107-532A-7235	Sequence 7235, Ap
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609	27	58.7	303	2	US-10-379-010-8	Sequence 8, Appl1	682	27	58.7	548	2	US-09-207-388-23	Sequence 23, Appl1
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686	27	58.7	568	2	US-09-207-388-22	Sequence 22, Appl	759	27	58.7	792	2	US-09-902-540-11813	Sequence 11813, A
687	27	58.7	568	2	US-09-207-388-24	Sequence 24, Appl	760	27	58.7	798	2	US-09-861-451A-12	Sequence 12, Appl
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690	27	58.7	575	2	US-09-927-267-16	Sequence 16, Appl	763	27	58.7	853	2	US-09-489-039A-11009	Sequence 11009, A
691	27	58.7	577	1	US-08-756-317-13	Sequence 13, Appl	764	27	58.7	857	2	US-09-252-991A-31764	Sequence 31764, A
692	27	58.7	577	1	US-08-867-941-21	Sequence 21, Appl	765	27	58.7	858	2	US-09-949-002-498	Sequence 498, App
693	27	58.7	585	2	US-08-867-941-21	Sequence 21, Appl	766	27	58.7	878	1	US-08-732-429-2	Sequence 2, Appl
694	27	58.7	585	2	US-09-074-658-21	Sequence 21, Appl	767	27	58.7	878	2	US-09-798-267-2	Sequence 2, Appl
695	27	58.7	588	2	US-09-265-585C-34	Sequence 34, Appl	768	27	58.7	878	2	US-09-798-267-2	Sequence 3, Appl
696	27	58.7	589	2	US-09-270-767-45378	Sequence 45378, A	769	27	58.7	878	4	PCT-US95-05518-2	Sequence 2, Appl
697	27	58.7	592	2	US-09-408-020-80	Sequence 80, Appl	770	27	58.7	884	1	US-08-066-167-2	Sequence 8, Appl
698	27	58.7	596	2	US-09-797-0318-8	Sequence 8, Appl	771	27	58.7	884	1	US-08-474-067-8	Sequence 8, Appl
699	27	58.7	600	2	US-08-537-3618-9	Sequence 9, Appl	772	27	58.7	884	1	US-08-474-068A-8	Sequence 8, Appl
700	27	58.7	601	1	US-08-606-288-7	Sequence 7, Appl	773	27	58.7	884	1	US-08-478-373-94	Sequence 94, Appl
701	27	58.7	601	1	US-08-606-288-10	Sequence 10, Appl	774	27	58.7	884	1	US-08-474-671-94	Sequence 94, Appl
702	27	58.7	601	2	US-09-347-483-7	Sequence 7, Appl	775	27	58.7	905	2	US-10-132-350-46	Sequence 46, Appl
703	27	58.7	601	2	US-09-347-483-10	Sequence 10, Appl	776	27	58.7	908	2	US-10-132-350-48	Sequence 48, Appl
704	27	58.7	601	2	US-10-104-047-2566	Sequence 2566, Ap	777	27	58.7	908	1	US-08-487-890A-94	Sequence 94, Appl
705	27	58.7	602	2	US-08-990-470A-3	Sequence 3, Appl	778	27	58.7	908	1	US-08-478-435-94	Sequence 94, Appl
706	27	58.7	602	2	US-08-817-707-9	Sequence 9, Appl	779	27	58.7	908	1	US-08-337-483-94	Sequence 94, Appl
707	27	58.7	615	2	US-09-949-016-11320	Sequence 11320, A	780	27	58.7	908	2	US-08-478-373-94	Sequence 94, Appl
708	27	58.7	623	2	US-09-270-767-45228	Sequence 45228, A	781	27	58.7	908	2	US-08-474-671-94	Sequence 94, Appl
709	27	58.7	627	2	US-09-345-473E-46	Sequence 46, Appl	782	27	58.7	908	2	US-08-483-577A-94	Sequence 94, Appl
710	27	58.7	627	2	US-09-345-473E-47	Sequence 47, Appl	783	27	58.7	908	2	US-08-448-194-4	Sequence 4, Appl
711	27	58.7	627	2	US-09-862-027-46	Sequence 46, Appl	784	27	58.7	908	2	US-08-613-009A-16	Sequence 16, Appl
712	27	58.7	631	2	US-09-862-027-47	Sequence 47, Appl	785	27	58.7	908	2	US-08-697-438-94	Sequence 94, Appl
713	27	58.7	631	2	US-08-448-489-17	Sequence 17, Appl	786	27	58.7	908	2	US-08-667-921-4	Sequence 4, Appl
714	27	58.7	632	2	US-09-689-730-17	Sequence 17, Appl	787	27	58.7	908	2	US-08-637-654-94	Sequence 94, Appl
715	27	58.7	632	2	US-09-354-129-8	Sequence 8, Appl	788	27	58.7	908	2	US-08-649-518-94	Sequence 94, Appl
716	27	58.7	632	2	US-09-504-357-8	Sequence 8, Appl	789	27	58.7	908	2	US-08-778-570B-22	Sequence 22, Appl
717	27	58.7	643	2	US-09-178-252-25	Sequence 25, Appl	790	27	58.7	908	2	US-09-059-584-42	Sequence 42, Appl
718	27	58.7	643	2	US-09-826-660-25	Sequence 25, Appl	791	27	58.7	909	1	US-08-753-750B-12	Sequence 12, Appl
719	27	58.7	646	2	US-09-489-039A-12750	Sequence 12750, A	792	27	58.7	909	2	US-08-363-124A-4	Sequence 4, Appl
720	27	58.7	650	2	US-09-252-991A-24093	Sequence 24093, A	793	27	58.7	909	2	US-09-489-039A-13915	Sequence 13915, A
721	27	58.7	651	2	US-09-487-558B-430	Sequence 430, App	794	27	58.7	909	2	US-08-867-941-13	Sequence 13, Appl
722	27	58.7	660	2	US-09-248-796A-18051	Sequence 18051, A	795	27	58.7	909	2	US-08-867-941-17	Sequence 17, Appl
723	27	58.7	660	2	US-08-704-711A-18	Sequence 18, Appl	796	27	58.7	909	2	US-09-409-648-7	Sequence 8, Appl
724	27	58.7	660	2	US-09-521-220-18	Sequence 18, Appl	797	27	58.7	909	2	US-09-409-648-8	Sequence 8, Appl
725	27	58.7	660	2	US-09-391-104-19	Sequence 19, Appl	798	27	58.7	933	1	US-08-444-437-2	Sequence 2, Appl
726	27	58.7	660	2	US-09-917-254-89	Sequence 89, Appl	799	27	58.7	933	1	US-08-444-437-2	Sequence 2, Appl
727	27	58.7	660	2	US-09-948-016-6512	Sequence 6512, Ap	800	27	58.7	998	2	US-09-949-016-8326	Sequence 8326, Ap
728	27	58.7	660	2	US-09-948-016-7937	Sequence 7937, Ap	801	27	58.7	1000	1	US-08-867-941-15	Sequence 15, Appl
729	27	58.7	660	2	US-10-153-185-14	Sequence 14, Appl	802	27	58.7	1000	1	US-08-867-941-16	Sequence 16, Appl
730	27	58.7	663	2	US-09-194-468A-30	Sequence 30, Appl	803	27	58.7	1000	2	US-09-074-658-12	Sequence 12, Appl
731	27	58.7	666	2	US-09-198-452A-409	Sequence 409, App	804	27	58.7	1003	2	US-09-074-658-16	Sequence 16, Appl
732	27	58.7	666	2	US-09-270-767-62249	Sequence 62249, A	805	27	58.7	1003	2	US-09-540-236-2757	Sequence 26, Appl
733	27	58.7	666	2	US-09-438-185A-390	Sequence 390, App	806	27	58.7	1019	1	US-08-271-364A-7	Sequence 7, Appl
734	27	58.7	685	1	US-08-878-989-1	Sequence 1, Appl	807	27	58.7	1019	1	US-08-232-715B-26	Sequence 26, Appl
735	27	58.7	685	2	US-09-136-282-2	Sequence 2, Appl	808	27	58.7	1027	2	US-08-551-437-2	Sequence 2, Appl
736	27	58.7	685	2	US-09-272-796-1	Sequence 1, Appl	809	27	58.7	1027	2	US-09-004-225-2	Sequence 2, Appl
737	27	58.7	685	2	US-09-505-744-2	Sequence 2, Appl	810	27	58.7	1027	2	US-09-084-346-2	Sequence 2, Appl
738	27	58.7	685	2	US-09-771-161A-249	Sequence 249, App	811	27	58.7	1027	2	US-09-104-704-2	Sequence 2, Appl
739	27	58.7	685	2	US-09-771-161A-251	Sequence 251, App	812	27	58.7	1039	2	US-09-409-648-7	Sequence 7, Appl
740	27	58.7	687	1	US-08-449-645A-29	Sequence 29, Appl	813	27	58.7	1039	2	US-09-409-648-8	Sequence 8, Appl
741	27	58.7	687	1	US-08-702-367A-29	Sequence 29, Appl	814	27	58.7	1039	2	US-09-054-372-10	Sequence 10, Appl
742	27	58.7	711	2	US-09-902-540-12840	Sequence 12840, A	815	27	58.7	1039	2	US-09-949-002-298	Sequence 28, App
743	27	58.7	711	2	US-08-973-005A-12	Sequence 12, Appl	816	27	58.7	1039	6	5196511-2	Patent No. 5196511
744	27	58.7	719	1	US-09-003-217-2	Sequence 2, Appl	817	27	58.7	1066	2	US-09-252-991A-31530	Sequence 31530, A
745	27	58.7	719	2	US-09-218-942-2	Sequence 2, Appl	818	27	58.7	1091	2	US-08-986-485-5	Sequence 5, Appl
746	27	58.7	721	2	US-09-270-767-46645	Sequence 46645, A	819	27	58.7	1101	2	US-08-986-485-2	Sequence 2, Appl
747	27	58.7	724	2	US-10-104-047-2224	Sequence 2224, Ap	820	27	58.7	1115	2	US-10-012-231A-58	Sequence 58, Appl
748	27	58.7	735	2	US-09-902-540-14243	Sequence 14243, A	821	27	58.7	1115	2	US-10-015-389A-58	Sequence 58, Appl
749	27	58.7	746	2	US-09-248-796A-17109	Sequence 17109, A	822	27	58.7	1115	2	US-10-006-678A-58	Sequence 58, Appl
750	27	58.7	752	2	US-09-248-796A-15445	Sequence 15445, A	823	27	58.7	1115	2	US-10-015-671A-58	Sequence 58, Appl
751	27	58.7	753	1	US-08-867-941-20	Sequence 20, Appl	824	27	58.7	1115	2	US-10-011-333A-58	Sequence 58, Appl
752	27	58.7	753	1	US-09-074-658-20	Sequence 20, Appl	825	27	58.7	1115	2	US-10-006-041A-58	Sequence 58, Appl
753	27	58.7	753	1	US-08-677-862-2	Sequence 2, Appl	826	27	58.7	1115	2	US-10-012-064A-58	Sequence 58, Appl
754	27	58.7	763	1	US-09-252-571-2	Sequence 2, Appl	827	27	58.7	1115	2	US-10-012-064A-58	Sequence 58, Appl
755	27	58.7	763	1	US-09-434-065-2	Sequence 2, Appl	828	27	58.7	1147	2	US-09-538-092-1074	Sequence 1074, Ap
756	27	58.7	763	2	US-08-789-27E-4	Sequence 4, Appl	829	27	58.7	1169	1	US-08-315-468-4	Sequence 4, Appl
757	27	58.7	763	2	US-08-789-27E-5	Sequence 5, Appl	830	27	58.7	1186	2	US-09-178-252-23	Sequence 23, Appl

831	27	58.7	1186	2	US-09-826-660-23	Sequence 23, Appl	904	26	56.5	77	2	US-09-149-476-561	Sequence 561, App
832	27	58.7	1194	2	US-10-191-029-10	Sequence 10, Appl	905	26	56.5	77	2	US-09-663-600A-100	Sequence 100, App
833	27	58.7	1207	1	US-07-951-715A-7	Sequence 7, Appl1	906	26	56.5	78	2	US-09-148-476-407	Sequence 407, App
834	27	58.7	1207	1	US-08-459-448A-7	Sequence 7, Appl1	907	26	56.5	79	2	US-09-100-802-4	Sequence 4, Appl1
835	27	58.7	1207	2	US-08-459-595A-7	Sequence 7, Appl1	908	26	56.5	82	2	US-09-621-976-5109	Sequence 5109, App
836	27	58.7	1207	2	US-08-459-504B-7	Sequence 7, Appl1	909	26	56.5	82	2	US-09-270-767-34676	Sequence 34676, A
837	27	58.7	1207	2	US-08-459-444-7	Sequence 7, Appl1	910	26	56.5	85	2	US-09-270-767-49893	Sequence 49893, A
838	27	58.7	1207	2	US-09-053-549-8	Sequence 8, Appl1	911	26	56.5	92	2	US-09-513-999C-4222	Sequence 4222, App
839	27	58.7	1207	2	US-09-547-422-7	Sequence 7, Appl1	912	26	56.5	92	2	US-09-107-433-1884	Sequence 1884, App
840	27	58.7	1207	1	US-09-988-462-7	Sequence 7, Appl1	913	26	56.5	92	2	US-09-902-540-13721	Sequence 13721, A
841	27	58.7	1227	2	US-08-448-170-8	Sequence 8, Appl1	914	26	56.5	99	2	US-09-599-360B-194	Sequence 194, App
842	27	58.7	1227	2	US-09-053-549-2	Sequence 2, Appl1	915	26	56.5	99	2	US-09-663-600A-194	Sequence 194, App
843	27	58.7	1227	2	US-08-961-803-9	Sequence 9, Appl1	916	26	56.5	99	2	US-09-801-115B-2	Sequence 2, Appl1
844	27	58.7	1227	2	US-09-661-322A-63	Sequence 63, Appl	917	26	56.5	101	2	US-09-733-210-1295	Sequence 755, App
845	27	58.7	1228	2	US-09-661-322A-38	Sequence 38, Appl	918	26	56.5	101	2	US-09-733-210-1295	Sequence 1295, App
846	27	58.7	1229	1	US-08-100-709-4	Sequence 4, Appl1	919	26	56.5	108	2	US-09-252-991A-23650	Sequence 23650, A
847	27	58.7	1229	1	US-08-176-865-4	Sequence 4, Appl1	920	26	56.5	111	2	US-09-270-767-53364	Sequence 38147, A
848	27	58.7	1229	1	US-08-474-038-4	Sequence 4, Appl1	921	26	56.5	111	2	US-09-270-767-53364	Sequence 1598, App
849	27	58.7	1229	1	US-08-779-046-4	Sequence 4, Appl1	922	26	56.5	113	2	US-09-471-276-1598	Sequence 21, Appl
850	27	58.7	1229	1	US-08-881-340-4	Sequence 4, Appl1	923	26	56.5	114	2	US-08-537-871A-21	Sequence 7392, App
851	27	58.7	1280	2	US-09-377-285B-18	Sequence 18, Appl	924	26	56.5	116	2	US-09-621-976-7392	Sequence 2754, A
852	27	58.7	1280	2	US-10-192-381-18	Sequence 18, Appl	925	26	56.5	116	2	US-09-248-796A-27574	Sequence 2423, A
853	27	58.7	1327	2	US-09-196-387-2	Sequence 2, Appl1	926	26	56.5	125	2	US-09-902-540-12158	Sequence 1258, A
854	27	58.7	1327	2	US-09-841-835-2	Sequence 8, Appl1	927	26	56.5	126	2	US-10-101-464A-609	Sequence 609, App
855	27	58.7	1327	2	US-09-972-115A-8	Sequence 8, Appl1	928	26	56.5	129	2	US-09-621-976-5177	Sequence 5177, App
856	27	58.7	1367	2	US-08-864-641B-18	Sequence 18, Appl	929	26	56.5	133	2	US-09-621-976-5177	Sequence 4308, App
857	27	58.7	1405	2	US-09-248-796A-18103	Sequence 18103, A	930	26	56.5	134	2	US-09-621-976-5177	Sequence 43780, A
858	27	58.7	1417	1	US-08-559-303B-78	Sequence 78, Appl	931	26	56.5	134	2	US-09-270-767-43790	Sequence 4251, App
859	27	58.7	1417	2	US-08-781-891-78	Sequence 78, Appl	932	26	56.5	140	2	US-09-107-532A-4251	Sequence 7, Appl1
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861	27	58.7	1417	2	US-09-618-166-78	Sequence 78, Appl	934	26	56.5	146	1	US-09-047-243-6	Sequence 4, Appl1
862	27	58.7	1417	2	US-09-753-143-78	Sequence 78, Appl	935	26	56.5	146	1	US-08-688-908-4	Sequence 41, Appl1
863	27	58.7	1587	2	US-09-000-094-46	Sequence 46, Appl	936	26	56.5	146	1	US-09-914-379C-41	Sequence 86, Appl
864	27	58.7	1587	2	US-10-011-749-46	Sequence 46, Appl	937	26	56.5	147	2	US-09-200-919-3	Sequence 6, Appl1
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873	27	58.7	1953	2	US-09-917-254-92	Sequence 11, Appl	946	26	56.5	150	2	US-09-902-540-10700	Sequence 50, Appl
874	27	58.7	2432	2	US-09-074-658-15	Sequence 15, Appl	947	26	56.5	150	2	US-09-562-914-50	Sequence 120, App
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876	27	58.7	2432	2	US-09-413-814-48	Sequence 48, Appl	949	26	56.5	152	2	US-09-801-115B-4	Sequence 4, Appl1
877	27	58.7	2517	2	US-09-902-540-15380	Sequence 15380, A	950	26	56.5	152	2	US-09-999-833A-190	Sequence 190, App
878	27	58.7	2517	1	US-08-826-267-2	Sequence 2, Appl1	951	26	56.5	152	2	US-09-543-681A-6576	Sequence 190, App
879	27	58.7	3413	2	US-10-042-665A-8	Sequence 8, Appl1	952	26	56.5	152	2	US-09-801-115B-4	Sequence 190, App
880	27	58.7	3969	2	US-08-061-376-5	Sequence 5, Appl1	953	26	56.5	152	2	US-10-020-445A-190	Sequence 104, App
881	27	58.7	3969	2	US-09-538-092-1262	Sequence 1262, App	954	26	56.5	152	2	US-09-771-161A-190	Sequence 16845, A
882	27	58.7	4928	2	US-09-036-987A-5	Sequence 5, Appl1	955	26	56.5	164	2	US-08-759-628-3	Sequence 2698, App
883	27	58.7	4928	2	US-09-370-700-5	Sequence 5, Appl1	956	26	56.5	164	2	US-10-104-047-2698	Sequence 741, App
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885	27	58.7	4928	2	US-09-335-409-5	Sequence 5, Appl1	958	26	56.5	180	2	US-09-198-452A-741	Sequence 42, Appl
886	27	58.7	7257	2	US-09-568-102-5	Sequence 5, Appl1	959	26	56.5	181	2	US-09-117-257-42	Sequence 42, Appl
887	27	58.7	7257	2	US-09-567-969-5	Sequence 5, Appl1	960	26	56.5	183	2	US-09-489-352-42	Sequence 7280, App
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891	27	58.7	7257	2	US-09-567-899-5	Sequence 5, Appl1	964	26	56.5	201	2	US-09-543-681A-16826	Sequence 5902, App
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895	27	58.7	7257	1	US-08-665-647-35	Sequence 35, Appl	968	26	56.5	205	2	US-09-605-703B-2930	Sequence 242, App
896	27	58.7	7257	1	US-09-248-796A-26435	Sequence 26435, A	969	26	56.5	211	2	US-09-602-777A-242	Sequence 3, Appl1
897	27	58.7	7257	63	US-09-513-999C-6245	Sequence 6245, App	970	26	56.5	215	2	US-09-131-028A-13	Sequence 923, App
898	27	58.7	7257	65	US-09-134-000C-5439	Sequence 5439, App	971	26	56.5				
899	27	58.7	7257	68	US-09-462-478A-15	Sequence 15, Appl	972	26	56.5				
900	27	58.7	7257	69	US-08-864-357F-12	Sequence 2, Appl1	973	26	56.5				
901	27	58.7	7257	73	US-09-134-000C-5438	Sequence 5438, App	974	26	56.5				
902	27	58.7	7257	74	US-09-270-767-40735	Sequence 40735, App	975	26	56.5				
903	27	58.7	7257	74	US-09-270-767-55951	Sequence 55951, A	976	26	56.5				

977 26 56.5 215 2 US-09-949-016-6060 Sequence 6060, Ap
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980 26 56.5 218 2 US-08-914-375C-31 Sequence 31, Appl
981 26 56.5 218 2 US-09-270-767-40890 Sequence 40890, A
982 26 56.5 218 2 US-09-270-767-56106 Sequence 56106, A
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985 26 56.5 222 2 US-09-949-016-10739 Sequence 10739, A
986 26 56.5 222 1 US-09-949-016-10740 Sequence 10740, A
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988 26 56.5 224 1 US-08-922-983-4 Sequence 4, Appl
989 26 56.5 224 1 US-08-919-953-4 Sequence 4, Appl
990 26 56.5 224 2 US-08-871-572B-9 Sequence 9, Appl
991 26 56.5 224 2 US-08-871-572B-11 Sequence 11, Appl
992 26 56.5 226 2 US-09-192-983-4 Sequence 4, Appl
993 26 56.5 226 2 US-09-248-796A-14964 Sequence 14964, A
994 26 56.5 248 1 US-08-674-168-32 Sequence 32, Appl
995 26 56.5 248 2 US-08-985-908-11 Sequence 11, Appl
996 26 56.5 248 2 US-08-852-730-24 Sequence 24, Appl
997 26 56.5 248 2 US-09-353-133-3 Sequence 3, Appl
998 26 56.5 248 2 US-09-270-767-43329 Sequence 43329, A
999 26 56.5 248 2 US-10-337-985-3 Sequence 3, Appl
1000 26 56.5 248 2 US-09-810-521-3 Sequence 3, Appl

ALIGNMENTS

RESULT 1
US-08-217-188A-62
; Sequence 62, Application US/08217188A
; Patent No. 5594724
; GENERAL INFORMATION:
; APPLICANT: Melief, Cornelis J. M.
; APPLICANT: Visseren, M. J. W.
; APPLICANT: Kast, W. M.
; APPLICANT: van der Bruggen, Pierre
; APPLICANT: Boon-Falleur, Thierry
; TITLE OF INVENTION: Isolated Tumor Rejection Antigen
; TITLE OF INVENTION: Precursor MAGE-2 Derived Peptides, and Uses Thereof
; NUMBER OF SEQUENCES: 62
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felfe & Lynch
; STREET: 805 Third Avenue
; CITY: New York City
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/217,188A
; FILING DATE: 24-MARCH-1994
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
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; REGISTRATION NUMBER: 30,946
; REFERENCE/DOCKET NUMBER: LUD 5340
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 62:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 amino acid residues
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-217-188A-62

Query Match 100.0%; Score 46; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLOPETT 9
Db 1 MLDLOPETT 9

RESULT 2

US-08-687-226-62
; Sequence 62, Application US/08687226
; Patent No. 5686068
; GENERAL INFORMATION:
; APPLICANT: Melief, Cornelis J. M.; Visseren, M. W.;
; APPLICANT: van der Burg, Sjoerd; van der Bruggen, Pierre;
; APPLICANT: Boon-Falleur, Thierry
; TITLE OF INVENTION: Isolated Peptides Derived From
; TITLE OF INVENTION: MAGE-2, Cytolytic T Cells Specific To Complexes Of
; NUMBER OF SEQUENCES: 72
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felfe & Lynch
; STREET: 805 Third Avenue
; CITY: New York City
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 360 kb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/687,226
; FILING DATE: 25-JULY-1996
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/217,188
; FILING DATE: 24-MARCH-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Hanson, No. 5686068man D.
; REGISTRATION NUMBER: 30,946
; REFERENCE/DOCKET NUMBER: LUD 5447
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 62:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 amino acid residues
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-687-226-62

Query Match 100.0%; Score 46; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLOPETT 9
Db 1 MLDLOPETT 9

RESULT 3

US-08-667-725B-62
; Sequence 62, Application US/08667725B
; Patent No. 6063900
; GENERAL INFORMATION:
; APPLICANT: Melief, Cornelis J. M.
; APPLICANT: Visseren, M. J. W.
; APPLICANT: Kast, W. M.
; APPLICANT: van der Bruggen, Pierre

APPLICANT: Boon-Falleur, Thierry
TITLE OF INVENTION: Isolated Tumor Rejection Antigen
TITLE OF INVENTION: Precursor MAG-2 Derived Peptides, and Uses Thereof
NUMBER OF SEQUENCES: 64
CORRESPONDENCE ADDRESS:
ADDRESSER: Fulbright & Jaworski LLP
STREET: 666 Fifth Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10103
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
COMPUTER: IBM PS/2
OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/667,725B
FILING DATE: 21 June 1996
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Hanson, No. 6063900man D.
REGISTRATION NUMBER: 30,946
REFERENCE/DOCKET NUMBER: LUD 5340.1 DIV (081585)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 318-3000
TELEFAX: (212) 752-5958
INFORMATION FOR SEQ ID NO: 62:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acid residues
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-667-725B-62

Query Match 100.0%; Score 46; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MIDL0PETT 9
DB 1 MIDL0PETT 9

RESULT 4
US-09-007-748-62
Sequence 62, Application US/09007748
Patent No. 6147187
GENERAL INFORMATION:
APPLICANT: Melief, Cornelis J. M.
APPLICANT: Visseren, M. J. W.
APPLICANT: Kaat, W. M. M.
APPLICANT: van der Bruggen, Pierre
APPLICANT: Boon-Falleur, Thierry
TITLE OF INVENTION: Isolated Tumor Rejection Antigen
TITLE OF INVENTION: Precursor MAG-2 Derived Peptides, and Uses Thereof
NUMBER OF SEQUENCES: 64
CORRESPONDENCE ADDRESS:
ADDRESSER: Fulbright & Jaworski LLP
STREET: 666 Fifth Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10103
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
COMPUTER: IBM PS/2
OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/007,748
FILING DATE: 15 January 1998
CLASSIFICATION: 530

ATTORNEY/AGENT INFORMATION:
NAME: Hanson, No. 6147187man D.
REGISTRATION NUMBER: 30,946
REFERENCE/DOCKET NUMBER: LUD 5340.2 DIV (081572)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 318-3000
TELEFAX: (212) 752-5958
INFORMATION FOR SEQ ID NO: 62:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acid residues
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-007-748-62

Query Match 100.0%; Score 46; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MIDL0PETT 9
DB 1 MIDL0PETT 9

RESULT 5
US-08-197-484-71
Sequence 71, Application US/08197484
Patent No. 641931
GENERAL INFORMATION:
APPLICANT: VITIELLO, Maria A.
APPLICANT: CHESTNUT, Robert W.
APPLICANT: SETTE, Alessandro D.
APPLICANT: CELIS, Basaban
APPLICANT: GRAY, Howard
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ELICITING
TITLE OF INVENTION: CTL IMMUNITY
NUMBER OF SEQUENCES: 153
CORRESPONDENCE ADDRESS:
ADDRESSER: Townsend and Townsend Kourie and Crew
STREET: Stewart Street Tower, One Market Plaza
CITY: San Francisco
STATE: California
COUNTRY: US
ZIP: 94105-1493
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/197,484
FILING DATE: 16-FEB-1994
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/935,811
FILING DATE: 26-AUG-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/874,491
FILING DATE: 27-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/827,682
FILING DATE: 29-JAN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/749,568
FILING DATE: 26-AUG-1991
CURRENT APPLICATION DATA:
ATTORNEY/AGENT INFORMATION:
NAME: Parmelee, Steven W.
REGISTRATION NUMBER: 31,990
REFERENCE/DOCKET NUMBER: 14137-26-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 467-9600
TELEFAX: (206) 623-6793
INFORMATION FOR SEQ ID NO: 71:

SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: peptide
US-08-197-484-71

Query Match 100.0%; Score 46; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MLDLQPETT 9
Db 1 MLDLQPETT 9

RESULT 6
PCT-US95-02121-71
Sequence 71, Application PC/TUS9502121
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ELICITING
TITLE OF INVENTION: CTL IMMUNITY
NUMBER OF SEQUENCES: 153
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/02121
FILING DATE: 16-FEB-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/197,484
FILING DATE: 16-FEB-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/935,811
FILING DATE: 26-AUG-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/874,491
FILING DATE: 27-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/827,682
FILING DATE: 29-JAN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/749,568
FILING DATE: 26-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: Parmelee, Steven W.
REGISTRATION NUMBER: 31,990
REFERENCE/DOCKET NUMBER: 1437-26-4PC
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 467-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 71:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: peptide
PCT-US95-02121-71

Query Match 100.0%; Score 46; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MLDLQPETT 9
Db 1 MLDLQPETT 9

RESULT 7
US-08-902-516-19
Sequence 19, Application US/08902516
Patent No. 5891432
GENERAL INFORMATION:
APPLICANT: Soo Hoo, William

TITLE OF INVENTION: MEMBRANE-BOUND CYTOKINE COMPOSITIONS
TITLE OF INVENTION: COMPRISING GM-CSF AND METHODS OF MODULATING AN IMMUNE
TITLE OF INVENTION: RESPONSE USING SAME
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: CAMPBELL & FLORES, LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: United States
ZIP: 92121

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/902,516
FILING DATE: 29-JUL-1997

CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-IM 2442
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949

INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-902-516-19

Query Match 100.0%; Score 46; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MLDLQPETT 9
Db 2 MLDLQPETT 10

RESULT 8
US-08-704-344-22
Sequence 22, Application US/08704344
Patent No. 6218363

GENERAL INFORMATION:
APPLICANT: BASERGA, Renato L.
APPLICANT: RESNICOFF, Mariana
APPLICANT: HUANG, Ziwei
TITLE OF INVENTION: MHC PEPTIDES AND METHODS OF USE
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: HALE and DORR LLP
STREET: 1455 Pennsylvania Avenue, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/704,344
FILING DATE: 28-AUG-1996
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: WIXON, Henry N.
REGISTRATION NUMBER: 32,073
REFERENCE/DOCKET NUMBER: 104322.196
TELEPHONE: (202) 942-8459
TELEFAX: (202) 942-8484
INFORMATION FOR SEQ ID NO: 22:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-704-344-22

Query Match 100.0%; Score 46; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.015; 0; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY 1 MLDLOPETT 9
Db 2 MLDLOPETT 10

RESULT 9
US-09-847-185-19
Sequence 19, Application US/09847185
Patent No. 6482407
GENERAL INFORMATION:
APPLICANT: Soo Hoo, William
TITLE OF INVENTION: MEMBRANE-BOUND CYTOKINE COMPOSITIONS
COMPRISING GM-CSF AND METHODS OF MODULATING AN IMMUNE
RESPONSE USING SAME
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: CAMPBELL & FLORES, LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: United States
ZIP: 92121
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/847,185
FILING DATE: 01-May-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/201,931
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-IM 2442
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619)535-9001
TELEFAX: (619)535-8949
INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide

SEQUENCE DESCRIPTION: SEQ ID NO: 19:
US-09-847-185-19
Query Match 100.0%; Score 46; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.015; 0; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY 1 MLDLOPETT 9
Db 2 MLDLOPETT 10

RESULT 10
US-09-601-729-270
Sequence 270, Application US/09601729
Patent No. 6683052
GENERAL INFORMATION:
APPLICANT: THIAM, KADER
APPLICANT: AURIAULT, CLAUDE
APPLICANT: GRAS-MASSE, HELENE
APPLICANT: LOING, ESTELLE
APPLICANT: VERMAERDE, CLAUDE
APPLICANT: GUILLET, JEAN GERARD
TITLE OF INVENTION: LIPOPEPTIDES CONTAINING AN INTERFERON FRAGMENT AND USES
THEREOF IN PHARMACEUTICAL COMPOSITIONS
FILE REFERENCE: USB-97-AU-IN
CURRENT APPLICATION NUMBER: US/09/601,729
CURRENT FILING DATE: 2000-11-20
PRIOR APPLICATION NUMBER: PCT/FR99/00259
PRIOR FILING DATE: 1999-02-05
PRIOR APPLICATION NUMBER: 98 01439
PRIOR FILING DATE: 1998-02-06
NUMBER OF SEQ ID NOS: 281
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 270
LENGTH: 10
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-601-729-270

Query Match 100.0%; Score 46; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.015; 0; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY 1 MLDLOPETT 9
Db 2 MLDLOPETT 10

RESULT 11
US-09-980-177A-19
Sequence 19, Application US/09980177A
Patent No. 6838084
GENERAL INFORMATION:
APPLICANT: Jochmus, Ingrid
APPLICANT: Nieland, John
TITLE OF INVENTION: Cytotoxic T-cell Epitopes of the
Papilloma Virus L1-Protein and Use Thereof in Diagnosis and
Therapy
FILE REFERENCE: 50125/036001
CURRENT APPLICATION NUMBER: US/09/980,177A
CURRENT FILING DATE: 2001-11-29
PRIOR APPLICATION NUMBER: PCT/EP00/05006
PRIOR FILING DATE: 2000-05-31
PRIOR APPLICATION NUMBER: DE 19925199.1
PRIOR FILING DATE: 1999-06-01
NUMBER OF SEQ ID NOS: 77
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 19
LENGTH: 10

TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-09-980-177A-19

Query Match 100.0%; Score 46; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLOPETT 9
|||||
DB 2 MLDLOPETT 10

RESULT 12
US-08-075-541D-35
Sequence 35, Application US/08075541D
Patent No. 6183745

GENERAL INFORMATION:
APPLICANT: TINDLE, ROBERT
APPLICANT: FERNANDO, GERMAIN
APPLICANT: FRAZER, IAN
TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
NUMBER OF SEQUENCES: 56
CORRESPONDENCE ADDRESS:
ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
STREET: 1601 MARKET STREET, 36TH FLOOR
CITY: PHILADELPHIA
STATE: PENNSYLVANIA
COUNTRY: USA
ZIP: 19103-2398
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/075,541D
FILING DATE: 10-JUN-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: AU pk 3876
FILING DATE: 12-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: pcc/au91/00575
FILING DATE: 12-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: NADEL, ALAN S
REGISTRATION NUMBER: 27,363
REFERENCE/DOCKET NUMBER: 8795-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-567-2020
TELEFAX: 215-567-2991
INFORMATION FOR SEQ ID NO: 35:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-075-541D-35

Query Match 100.0%; Score 46; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.028;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLOPETT 9
|||||
DB 4 MLDLOPETT 12

RESULT 13
US-08-075-541D-45

Sequence 45, Application US/08075541D
Patent No. 6183745

GENERAL INFORMATION:
APPLICANT: TINDLE, ROBERT
APPLICANT: FERNANDO, GERMAIN
APPLICANT: FRAZER, IAN
TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
NUMBER OF SEQUENCES: 56
CORRESPONDENCE ADDRESS:
ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
STREET: 1601 MARKET STREET, 36TH FLOOR
CITY: PHILADELPHIA
STATE: PENNSYLVANIA
COUNTRY: USA
ZIP: 19103-2398

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/075,541D
FILING DATE: 10-JUN-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: AU pk 3876
FILING DATE: 12-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: pcc/au91/00575
FILING DATE: 12-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: NADEL, ALAN S
REGISTRATION NUMBER: 27,363
REFERENCE/DOCKET NUMBER: 8795-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-567-2020
TELEFAX: 215-567-2991
INFORMATION FOR SEQ ID NO: 45:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-075-541D-45

Query Match 100.0%; Score 46; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.028;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLOPETT 9
|||||
DB 1 MLDLOPETT 9

RESULT 14
US-08-934-915-46
Sequence 46, Application US/08934915
Patent No. 5932412

GENERAL INFORMATION:
APPLICANT: DILLNER, JOAKIM
APPLICANT: DILLNER, LENA
APPLICANT: CHENG, HWEI-MING
TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
DIAGNOSTIC PURPOSES
NUMBER OF SEQUENCES: 193
CORRESPONDENCE ADDRESS:
ADDRESSEE: MASON & ASSOCIATES, P.A.
STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500

CITY: CLEARWATER
STATE: FLORIDA
COUNTRY: U.S.A.
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 3.0
SOFTWARE: Microsoft Word 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/934,915
FILING DATE: 22-SEP-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/949,836
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: LOUISE A. FOUTCH
REGISTRATION NUMBER: 37,133
REFERENCE/DOCKET NUMBER: 1946.6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 813-538-3800
TELEFAX: 813-538-3820
TELEX:
INFORMATION FOR SEQ ID NO: 46:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-934-915-46

Query Match 100.0%; Score 46; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.032;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MDLQPETT 9
Db 11 MDLQPETT 19

RESULT 15
US-08-075-541D-43
Sequence 43, Application US/08075541D
Patent No. 6183745
GENERAL INFORMATION:
APPLICANT: TINDLE, ROBERT
APPLICANT: FERNANDO, GERMAIN
TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
NUMBER OF SEQUENCES: 56
CORRESPONDENCE ADDRESS:
ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
STREET: 1601 MARKET STREET, 36TH FLOOR
CITY: PHILADELPHIA
STATE: PENNSYLVANIA
COUNTRY: USA
ZIP: 19103-2398
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/075,541D
FILING DATE: 10-JUN-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: AU Pk 3876
FILING DATE: 12-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: pct/au91/00575
FILING DATE: 12-DEC-1991

ATTORNEY/AGENT INFORMATION:
NAME: NADEL, ALAN S
REGISTRATION NUMBER: 27,363
REFERENCE/DOCKET NUMBER: 8795-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-567-2920
TELEFAX: 215-567-2991
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-075-541D-43

Query Match 100.0%; Score 46; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.032;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MDLQPETT 9
Db 12 MDLQPETT 20

RESULT 16
US-08-075-541D-44
Sequence 44, Application US/08075541D
Patent No. 6183745
GENERAL INFORMATION:
APPLICANT: TINDLE, ROBERT
APPLICANT: FERNANDO, GERMAIN
TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
NUMBER OF SEQUENCES: 56
CORRESPONDENCE ADDRESS:
ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
STREET: 1601 MARKET STREET, 36TH FLOOR
CITY: PHILADELPHIA
STATE: PENNSYLVANIA
COUNTRY: USA
ZIP: 19103-2398
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/075,541D
FILING DATE: 10-JUN-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: AU Pk 3876
FILING DATE: 12-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: pct/au91/00575
FILING DATE: 12-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: NADEL, ALAN S
REGISTRATION NUMBER: 27,363
REFERENCE/DOCKET NUMBER: 8795-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-567-2920
TELEFAX: 215-567-2991
INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-075-541D-44

Query Match 100.0%; Score 46; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.032;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLQPTT 9
|||
Db 7 MLDLQPTT 15

RESULT 17
US-09-980-177A-69

; Sequence 69, Application US/09980177A
; Patent No. 6838084
; GENERAL INFORMATION:
; APPLICANT: Jochmus, Ingrid
; APPLICANT: Nieland, John
; TITLE OF INVENTION: Cytotoxic T-cell Epitopes of the
; Papilloma Virus L1-Protein and Use Thereof in Diagnosis and
; TITLE OF INVENTION: Therapy
; FILE REFERENCE: 50125/036001
; CURRENT APPLICATION NUMBER: US/09/980,177A
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: PCT/EP00/05006
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: DE 19925199.1
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 69
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-980-177A-69

Query Match 100.0%; Score 46; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.032;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLQPTT 9
|||
Db 12 MLDLQPTT 20

RESULT 18
US-09-980-177A-70

; Sequence 70, Application US/09980177A
; Patent No. 6838084
; GENERAL INFORMATION:
; APPLICANT: Jochmus, Ingrid
; APPLICANT: Nieland, John
; TITLE OF INVENTION: Cytotoxic T-cell Epitopes of the
; Papilloma Virus L1-Protein and Use Thereof in Diagnosis and
; TITLE OF INVENTION: Therapy
; FILE REFERENCE: 50125/036001
; CURRENT APPLICATION NUMBER: US/09/980,177A
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: PCT/EP00/05006
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: DE 19925199.1
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 70
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-980-177A-70

Query Match 100.0%; Score 46; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.032;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLQPTT 9
|||
Db 1 MLDLQPTT 9

RESULT 19
US-09-980-523A-14

; Sequence 14, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 AND E7
; TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: WO81 AO INS
; CURRENT APPLICATION NUMBER: US/09/980,523A
; PRIOR FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: PCT/FR00/01513
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: FR 99/07012
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 23
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-09-980-523A-14

Query Match 100.0%; Score 46; DB 2; Length 23;
Best Local Similarity 100.0%; Pred. No. 0.037;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLQPTT 9
|||
Db 10 MLDLQPTT 18

RESULT 20
US-08-363-586-1

; Sequence 1, Application US/08363586
; Patent No. 5629161
; GENERAL INFORMATION:
; APPLICANT: Mueller, Martin
; APPLICANT: Giesmann, Lutz
; TITLE OF INVENTION: Use of HPV-16 E6 and E7-Gene Derived
; NUMBER OF INVENTIONS: Peptides for the Diagnostic Purpose
; CORRESPONDENCE ADDRESS:
; ADDRESS: Finnegan, Henderson, Farbow, Garrett &
; ADDRESS: Dunner
; STREET: 1300 I Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/363,586
; FILING DATE: 23-DEC-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/909,296
; FILING DATE: 09-JUL-1992
; APPLICATION NUMBER: EP 91111720.8

FILING DATE: 13-JUL-1991
ATTORNEY/AGENT INFORMATION:
NAME: Madler, Linda A.
REGISTRATION NUMBER: 33,218
REFERENCE/DOCKET NUMBER: 02481-1195-00000
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-408-4000
TELEFAX: 202-408-4400
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 30 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-363-586-1

Query Match 100.0%; Score 46; DB 1; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.049;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLOPETT 9
Db 7 MLDLOPETT 15

RESULT 21
US-08-934-915-51
Sequence 51, Application US/08934915
Patent No. 5932412
GENERAL INFORMATION:
APPLICANT: DILLNER, JOAKIM
APPLICANT: DILLNER, LENA
APPLICANT: CHENG, HWEI-MING
TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
TITLE OF INVENTION: DIAGNOSTIC PURPOSES
NUMBER OF SEQUENCES: 193
CORRESPONDENCE ADDRESS:
ADDRESSEE: MASON & ASSOCIATES, P. A.
STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
CITY: CLEARWATER
STATE: FLORIDA
COUNTRY: U.S.A.
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 3.0
SOFTWARE: Microsoft Word 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/934,915
FILING DATE: 22-SEP-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/949,836
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: LOUISE A. FOUTCH
REGISTRATION NUMBER: 37,133
REFERENCE/DOCKET NUMBER: 1946.6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 813-538-3800
TELEFAX: 813-538-3820
TELEX:
INFORMATION FOR SEQ ID NO: 51:
SEQUENCE CHARACTERISTICS:
LENGTH: 30 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-934-915-51

Query Match 100.0%; Score 46; DB 1; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.049;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLOPETT 9
Db 11 MLDLOPETT 19

RESULT 22
US-09-486-394-1
Sequence 1, Application US/09486394
Patent No. 6478749
GENERAL INFORMATION:
APPLICANT: Hopfl, Reinhard
TITLE OF INVENTION: Diagnostic kit for Skin Tests, and Method
FILE REFERENCE: 032929-001
CURRENT APPLICATION NUMBER: US/09/486,394
CURRENT FILING DATE: 2000-06-20
PRIOR APPLICATION NUMBER: PCT/EP98/04773
PRIOR FILING DATE: 1998-07-30
PRIOR APPLICATION NUMBER: DE 197 37 409.3
PRIOR FILING DATE: 1997-08-27
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn version 3.1
SEQ ID NO 1
LENGTH: 30
TYPE: PRT
ORGANISM: Human papillomavirus type 16
FEATURE:
NAME/KEY: PEPTIDE
LOCATION: (1)..(30)
OTHER INFORMATION: E7 peptide.
US-09-486-394-1

Query Match 100.0%; Score 46; DB 2; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.049;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLOPETT 9
Db 12 MLDLOPETT 20

RESULT 23
US-09-828-645-3
Sequence 3, Application US/09828645
Patent No. 6743593
GENERAL INFORMATION:
APPLICANT: Hu, Yao Xiong
TITLE OF INVENTION: Immunological Methodology for Discerning Human Papillomavirus
FILE REFERENCE: 146-1-002
CURRENT APPLICATION NUMBER: US/09/828,645
CURRENT FILING DATE: 2001-04-05
PRIOR APPLICATION NUMBER: US 60/194,796
PRIOR FILING DATE: 2000-04-05
NUMBER OF SEQ ID NOS: 8
SOFTWARE: PatentIn version 3.1
SEQ ID NO 3
LENGTH: 30
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Derived from the E7 early region of HPV-16
US-09-828-645-3

Query Match 100.0%; Score 46; DB 2; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.049;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLOPETT 9
Db 7 MLDLOPETT 15

RESULT 24
US-09-828-645-7
; Sequence 7, Application US/09828645
; Patent No. 6743593
; GENERAL INFORMATION:
; APPLICANT: HU, Yao Xiong
; TITLE OF INVENTION: Immunological Methodology for Discerning Human Papillomavirus
; FILE REFERENCE: 146-1-002
; CURRENT APPLICATION NUMBER: US/09/828,645
; CURRENT FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: US 60/194,796
; PRIOR FILING DATE: 2000-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 30
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from the E7 early region of HPV-16
; NAME/KEY: misc feature
; LOCATION: (19)-(19)
; OTHER INFORMATION: Xaa = L-carboxymethylcysteine
US-09-828-645-7

Query Match 100.0%; Score 46; DB 2; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.049;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MLDLQPERTT 9
Db 7 MLDLQPERTT 15

RESULT 25
US-09-390-027-6
; Sequence 6, Application US/09390027
; Patent No. 6235523
; GENERAL INFORMATION:
; APPLICANT: GAJEWICZYK, Diane M.
; APPLICANT: BERSSON, Roy
; APPLICANT: YAO, Fei-Long
; APPLICANT: CAO, Shi-Xian
; APPLICANT: KLEIN, Michel H.
; APPLICANT: TARTAGLIA, James
; APPLICANT: MOINGEON, Benjamin
; APPLICANT: ROVINSKI, Benjamin
; TITLE OF INVENTION: TREATMENT OF CERVICAL CANCER
; FILE REFERENCE: 1038-982 MIS:jb
; CURRENT APPLICATION NUMBER: US/09/390,027
; CURRENT FILING DATE: 1999-09-03
; EARLIER APPLICATION NUMBER: 60/099,291
; EARLIER FILING DATE: 1998-09-04
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 59
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-390-027-6

Query Match 100.0%; Score 46; DB 2; Length 59;
Best Local Similarity 100.0%; Pred. No. 0.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MLDLQPERTT 9
Db 15 MLDLQPERTT 23

RESULT 26
US-08-406-248-6
; Sequence 6, Application US/08406248
; Patent No. 5736318
; GENERAL INFORMATION:
; APPLICANT: Munger, Karl
; APPLICANT: Jones, D. Leanne
; TITLE OF INVENTION: METHOD AND KIT FOR EVALUATING
; TITLE OF INVENTION: TRANSFORMED CELLS
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESS: Ann-Louise Kerner, Ph.D., Lappin & Kusner
; STREET: 200 State Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/406,248
; FILING DATE:
; CLASSIFICATION: 436
; ATTORNEY/AGENT INFORMATION:
; NAME: McDaniels, Patricia A.
; REGISTRATION NUMBER: 33,194
; REFERENCE/DOCKET NUMBER: HAZ-011
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-330-1300
; TELEFAX: 617-330-1311
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-406-248-6

Query Match 100.0%; Score 46; DB 1; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MLDLQPERTT 9
Db 12 MLDLQPERTT 20

RESULT 27
US-08-075-541D-42
; Sequence 42, Application US/08075541D
; Patent No. 6183745
; GENERAL INFORMATION:
; APPLICANT: TINDLE, ROBERT
; APPLICANT: FERNANDO, GERMAIN
; APPLICANT: FRAZER, IAN
; TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
; TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
; NUMBER OF SEQUENCES: 56
; CORRESPONDENCE ADDRESS:
; ADDRESS: PANITCH SCHWARZ JACOBS & NADEL, P.C.
; STREET: 1601 MARKET STREET, 36TH FLOOR
; CITY: PHILADELPHIA
; STATE: PENNSYLVANIA
; COUNTRY: USA
; ZIP: 19103-2398
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/075,541D
FILING DATE: 10-JUN-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: AU pk 3876
FILING DATE: 12-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: pct/au91/00575
FILING DATE: 12-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: NADEL, ALAN S
REGISTRATION NUMBER: 27,363
REFERENCE/DOCKET NUMBER: 8795-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-567-2070
TELEFAX: 215-567-2991
INFORMATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-075-541D-42

Query Match 100.0%; Score 46; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLPETT 9
Db 12 MLDLPETT 20

RESULT 28
US-09-382-616A-1
Sequence 1, Application US/09382616A
Patent No. 6200746
GENERAL INFORMATION:
APPLICANT: Fisher, Christopher
APPLICANT: He, Wanxia
TITLE OF INVENTION: Methods to identify Anti-Viral Agents
FILE REFERENCE: 28341/6216
CURRENT APPLICATION NUMBER: US/09/382,616A
PRIOR FILING DATE: 1999-08-25
PRIOR APPLICATION NUMBER: 09/382,616
NUMBER OF SEQ ID NOS: 43
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 1
LENGTH: 98
TYPE: PRT
ORGANISM: Papillomavirus sv4vllag1
US-09-382-616A-1

Query Match 100.0%; Score 46; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLPETT 9
Db 12 MLDLPETT 20

RESULT 29
US-08-944-368A-4
Sequence 4, Application US/08944368A
Patent No. 6228368
GENERAL INFORMATION:
APPLICANT: Gissman, et al.
TITLE OF INVENTION: Papilloma Virus Capsomere Vaccine

TITLE OF INVENTION: Formulations and Methods of Use
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
ADDRESSER: Borun
STREET: 233 South Wacker Drive, 6300 Sears Tower
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/944,368A
FILING DATE:
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Williams Jr., Joseph A.
REGISTRATION NUMBER: 38,659
REFERENCE/DOCKET NUMBER: 27013/34028
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-474-6300
TELEFAX: 312-474-0448
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-944-368A-4

Query Match 100.0%; Score 46; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLPETT 9
Db 12 MLDLPETT 20

RESULT 30
US-09-820-764-4
Sequence 4, Application US/09820764
Patent No. 6352696
GENERAL INFORMATION:
APPLICANT: BURGER, Alexander
APPLICANT: HALLEK, Michael
TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
FORMULATIONS AND METHODS OF USE
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/820,764
FILING DATE: 30-Mar-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/026,896
FILING DATE: 20-FEB-1998
ATTORNEY/AGENT INFORMATION:

NAME: Sandercock, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-820-764-4

Query Match 100.0%; Score 46; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLOPETT 9
|||
DB 12 MLDLOPETT 20

RESULT 31
US-09-613-303-8
Sequence 8, Application US/09613303
Patent No. 6495347
GENERAL INFORMATION:
APPLICANT: Siegel, Marvin
APPLICANT: Chu, N. Randall
APPLICANT: Mizen, Lee A.
TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
FILE REFERENCE: 12071/002001
CURRENT APPLICATION NUMBER: US/09/613,303
CURRENT FILING DATE: 2000-07-10
PRIOR APPLICATION NUMBER: US 60/143,757
PRIOR FILING DATE: 1999-07-08
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 8
LENGTH: 98
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: fusion sequence
US-09-613-303-8

Query Match 100.0%; Score 46; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLOPETT 9
|||
DB 12 MLDLOPETT 20

RESULT 32
US-09-566-420-19
Sequence 19, Application US/09566420
Patent No. 650641
GENERAL INFORMATION:
APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
TITLE OF INVENTION: IMMUNE RESPONSE
FILE REFERENCE: TBA
CURRENT APPLICATION NUMBER: US/09/566,420
CURRENT FILING DATE: 2000-05-05
PRIOR APPLICATION NUMBER: 60/132,752
PRIOR FILING DATE: 1999-05-06
PRIOR APPLICATION NUMBER: 60/132,750
PRIOR FILING DATE: 1999-05-06
NUMBER OF SEQ ID NOS: 19

SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 19
LENGTH: 98
TYPE: PRT
ORGANISM: Human papillomavirus type E7
US-09-566-420-19

Query Match 100.0%; Score 46; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLOPETT 9
|||
DB 12 MLDLOPETT 20

RESULT 33
US-09-986-118A-4
Sequence 4, Application US/09986118A
Patent No. 6562351
GENERAL INFORMATION:
APPLICANT: BURGER, Alexander
APPLICANT: HALBER, Michael
TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
FORMULATIONS AND METHODS OF USE
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/986,118A
FILING DATE: 07-No. 6562351-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/026,896
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Sandercock, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-986-118A-4

Query Match 100.0%; Score 46; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLOPETT 9
|||
DB 12 MLDLOPETT 20

RESULT 34
US-09-728-466-1
Sequence 1, Application US/09728466

Patent No. 6641994
GENERAL INFORMATION:
APPLICANT: Fisher, Christopher
TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
FILE REFERENCE: 28341/6216
CURRENT FILING DATE: 2000-12-01
PRIOR APPLICATION NUMBER: 09/382,616
PRIOR FILING DATE: 1999-08-25
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1
LENGTH: 98
TYPE: PRT
ORGANISM: Papillomavirus eylv1agi
US-09-728-466-1

Query Match 100.0%; Score 46; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLPETT 9
Db 12 MLDLPETT 20

RESULT 35
US-09-824-017-4
Sequence 4, Application US/09824017
Patent No. 6649167
GENERAL INFORMATION:
APPLICANT: BURGER, Alexander

TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
FORMULATIONS AND METHODS OF USE
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSER: POLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/824,017
FILING DATE: 03-Apr-2001
CLASSIFICATION: 424

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/026,896
FILING DATE: 1998-02-20

ATTORNEY/AGENT INFORMATION:
NAME: Sandercok, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 4:

US-09-824-017-4

Query Match 100.0%; Score 46; DB 2; Length 98;

Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLPETT 9
Db 12 MLDLPETT 20

RESULT 36
US-10-267-311-8
Sequence 8, Application US/10267311
Patent No. 6657055
GENERAL INFORMATION:
APPLICANT: Siegel, Marvin
APPLICANT: Chu, N. Randall
APPLICANT: Mizen, Lee A.
TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
FILE REFERENCE: 12071/002001
CURRENT APPLICATION NUMBER: US/10/267,311
CURRENT FILING DATE: 2002-10-09
PRIOR APPLICATION NUMBER: US/09/613,303
PRIOR FILING DATE: 2000-07-10
PRIOR APPLICATION NUMBER: US 60/143,757
PRIOR FILING DATE: 1999-07-08
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 8
LENGTH: 98
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: fusion sequence
US-10-267-311-8

Query Match 100.0%; Score 46; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLPETT 9
Db 12 MLDLPETT 20

RESULT 37
US-10-201-764-19
Sequence 19, Application US/10201764
Patent No. 6716623
GENERAL INFORMATION:
APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
FILE REFERENCE: TBA
CURRENT APPLICATION NUMBER: US/10/201,764
CURRENT FILING DATE: 2002-07-22
PRIOR APPLICATION NUMBER: US/09/566,420
PRIOR FILING DATE: 2000-05-05
PRIOR APPLICATION NUMBER: 60/132,752
PRIOR FILING DATE: 1999-05-06
PRIOR APPLICATION NUMBER: 60/132,750
PRIOR FILING DATE: 1999-05-06
NUMBER OF SEQ ID NOS: 19
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 19
LENGTH: 98
TYPE: PRT
ORGANISM: Human papillomavirus type E7
US-10-201-764-19

Query Match 100.0%; Score 46; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLPETT 9

Db 12 MLDLQPERTT 20

RESULT 38
US-09-637-746-3
; Sequence 3, Application US/09637746
; Patent No. 6727079
; GENERAL INFORMATION:
; APPLICANT: Thorgelsson, Snorri S.
; APPLICANT: Woltach, Joseph T.
; APPLICANT: Zhang, Minghuang
; TITLE OF INVENTION: CDNA ENCODING A GENE BOG (BST OVER-EXPRESSED GENE) AND ITS PROTEI
; TITLE OF INVENTION: PRODUCT
; FILE REFERENCE: 11613.29USM1
; CURRENT APPLICATION NUMBER: US/09/637,746
; CURRENT FILING DATE: 2000-08-11
; PRIOR APPLICATION NUMBER: PCT/US99/04142
; PRIOR FILING DATE: 1999-02-25
; PRIOR APPLICATION NUMBER: US 60/079,567
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: US 60/075,922
; PRIOR FILING DATE: 1998-02-25
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-09-637-746-3

Query Match 100.0%; Score 46; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MLDLQPERTT 9
Db 12 MLDLQPERTT 20

RESULT 39
US-09-501-097A-7
; Sequence 7, Application US/09501097A
; Patent No. 6734173
; GENERAL INFORMATION:
; APPLICANT: Tzyy-Chou Wu
; APPLICANT: Chien-Fu Hung
; TITLE OF INVENTION: IMPROVED HSP DNA VACCINES
; FILE REFERENCE: 2240-169349
; CURRENT APPLICATION NUMBER: US/09/501,097A
; CURRENT FILING DATE: 2000-02-09
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 98
; TYPE: PRT
; ORGANISM: human papillomavirus
US-09-501-097A-7

Query Match 100.0%; Score 46; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MLDLQPERTT 9
Db 12 MLDLQPERTT 20

RESULT 40
US-09-980-523A-12
; Sequence 12, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:

; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOUGAUDT VILADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 AND E7
; TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: WOBI AO INS
; CURRENT APPLICATION NUMBER: US/09/980,523A
; CURRENT FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: PCT/FR00/01513
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: FR 99/07012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-09-980-523A-12

Query Match 100.0%; Score 46; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MLDLQPERTT 9
Db 12 MLDLQPERTT 20

RESULT 41
US-09-613-303-12
; Sequence 12, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/09/613,303
; CURRENT FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 121
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-09-613-303-12

Query Match 100.0%; Score 46; DB 2; Length 121;
Best Local Similarity 100.0%; Pred. No. 0.22;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MLDLQPERTT 9
Db 35 MLDLQPERTT 43

RESULT 42
US-10-267-311-12
; Sequence 12, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.

```

; TITLE OF INVENTION: INDUCTION OF A THI-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/267,311
; CURRENT FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 121
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-267-311-12
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Query Match          100.0%; Score 46; DB 2; Length 121;
Best Local Similarity 100.0%; Pred. No. 0.22;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy      1 MDLQPEPT 9
        |||||
Db      35 MDLQPEPT 43
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RESULT 43
US-08-860-165-12
; Sequence 12, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-12
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Query Match          100.0%; Score 46; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.32;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
Qy      1 MDLQPEPT 9
        |||||
Db     110 MDLQPEPT 118
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```

RESULT 44
US-09-359-382-12
; Sequence 12, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
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```

; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-12
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Query Match          100.0%; Score 46; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.32;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
Qy      1 MDLQPEPT 9
        |||||
Db     110 MDLQPEPT 118
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```

RESULT 45
US-09-462-993-2
; Sequence 2, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
; APPLICANT: KIENY, Marie-Paule
; APPLICANT: BALLOU, Jean-Marc
; APPLICANT: BIZOUARNE, Nadine
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
; TITLE OF INVENTION: POLYPEPTIDE WITH MODIFIED CELL LOCATION
; FILE REFERENCE: 01753-122
; CURRENT APPLICATION NUMBER: US/09/462,993
; CURRENT FILING DATE: 2000-04-17
; PRIOR APPLICATION NUMBER: PCT/FR98/01576
; PRIOR FILING DATE: 1998-07-17
; PRIOR APPLICATION NUMBER: FR 97/09152
; PRIOR FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 2
; LENGTH: 185
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from human papillomavirus, strain
; OTHER INFORMATION: HPV-16, E7 fusion signals of the rabies
; OTHER INFORMATION: glycoprotein, clone E7-TMR.
US-09-462-993-2
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Query Match          100.0%; Score 46; DB 2; Length 185;
Best Local Similarity 100.0%; Pred. No. 0.34;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy      1 MDLQPEPT 9
        |||||
Db      37 MDLQPEPT 45
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RESULT 46
US-09-613-303-35
; Sequence 35, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A THI-LIKE RESPONSE IN VITRO
```

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FILE REFERENCE: 12071/002001
CURRENT APPLICATION NUMBER: US/09/613,303
CURRENT FILING DATE: 2000-07-10
PRIOR APPLICATION NUMBER: US 60/143,757
PRIOR FILING DATE: 1999-07-08
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 35
LENGTH: 198
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: fusion sequence
US-09-613-303-35

Query Match      100.0%; Score 46; DB 2; Length 198;
Best Local Similarity 100.0%; Pred. No. 0.37;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 MLDLQPEPT 9
Db      112 MLDLQPEPT 120

RESULT 47
US-10-267-311-35
Sequence 35, Application US/10267311
Patent No. 6657055
GENERAL INFORMATION:
APPLICANT: Siegel, Marvin
APPLICANT: Chu, N. Randall
APPLICANT: Mizeen, Lee A.
TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
FILE REFERENCE: 12071/002001
CURRENT APPLICATION NUMBER: US/10/267,311
CURRENT FILING DATE: 2002-10-09
PRIOR APPLICATION NUMBER: US/09/613,303
PRIOR FILING DATE: 2000-07-10
PRIOR APPLICATION NUMBER: US 60/143,757
PRIOR FILING DATE: 1999-07-08
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 35
LENGTH: 198
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: fusion sequence
US-10-267-311-35

Query Match      100.0%; Score 46; DB 2; Length 198;
Best Local Similarity 100.0%; Pred. No. 0.37;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 MLDLQPEPT 9
Db      112 MLDLQPEPT 120

RESULT 48
US-09-485-885-1
Sequence 1, Application US/09485885
Patent No. 6342224
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabezon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Fernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/09/485,885
CURRENT FILING DATE: 2000-02-18
```

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PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 1
LENGTH: 220
TYPE: PRT
ORGANISM: Homo sapien
US-09-485-885-1

Query Match      100.0%; Score 46; DB 2; Length 220;
Best Local Similarity 100.0%; Pred. No. 0.41;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 MLDLQPEPT 9
Db      125 MLDLQPEPT 133

RESULT 49
US-09-485-885-8
Sequence 8, Application US/09485885
Patent No. 6342224
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabezon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Fernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/09/485,885
CURRENT FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 8
LENGTH: 220
TYPE: PRT
ORGANISM: Homo sapien
US-09-485-885-8

Query Match      100.0%; Score 46; DB 2; Length 220;
Best Local Similarity 100.0%; Pred. No. 0.41;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 MLDLQPEPT 9
Db      125 MLDLQPEPT 133

RESULT 50
US-09-485-885-12
Sequence 12, Application US/09485885
Patent No. 6342224
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabezon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Fernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/09/485,885
CURRENT FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
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; PRIOR FILING DATE: 1997-08-22
 ; NUMBER OF SEQ ID NOS: 23
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 12
 ; LENGTH: 239
 ; TYPE: PRT
 ; ORGANISM: Homo sapien
 US-09-485-885-12

Query Match 100.0%; Score 46; DB 2; Length 239;
 Best Local Similarity 100.0%; Pred. No. 0.45;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MIDLQETT 9
 |||||
 Db 144 MIDLQETT 152

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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:29:07 ; Search time 56 Seconds
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Title: US-08-170-344-15
Perfect score: 46
Sequence: 1 MLDQPERT 9

Scoring table: BLOSUM62
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Searched: 1867569 seqs, 417829326 residues
Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database : Published Applications_AA_Main:*

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- 2: /cgn2_6/prodata/1/pubppaa/US08_PUBCOMB.pep:*
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- 4: /cgn2_6/prodata/1/pubppaa/US10_PUBCOMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	46	100.0	9	4	US-10-128-711-71
2	46	100.0	9	4	US-10-777-053-328
3	46	100.0	9	4	US-10-777-053-496
4	46	100.0	9	4	US-10-777-053-913
5	46	100.0	9	4	US-10-837-217-328
6	46	100.0	9	4	US-10-837-217-496
7	46	100.0	9	4	US-10-837-217-913
8	46	100.0	9	5	US-10-484-063-12
9	46	100.0	9	5	US-10-751-845-101
10	46	100.0	9	5	US-10-924-377-7
11	46	100.0	10	3	US-09-847-185-19
12	46	100.0	10	3	US-09-835-853-22
13	46	100.0	10	3	US-09-739-466C-13
14	46	100.0	10	3	US-10-133-210-371
15	46	100.0	10	4	US-10-224-286-19
16	46	100.0	10	4	US-10-177-390-33
17	46	100.0	10	4	US-10-406-317-30
18	46	100.0	10	4	US-10-297-168-30
19	46	100.0	10	4	US-10-777-053-329
20	46	100.0	10	4	US-10-777-053-342
21	46	100.0	10	4	US-10-837-217-329
22	46	100.0	10	4	US-10-837-217-542
23	46	100.0	10	5	US-10-890-526-19
24	46	100.0	10	5	US-10-751-845-105
25	46	100.0	10	5	US-10-776-521B-366
26	46	100.0	10	5	US-10-820-067A-877
27	46	100.0	11	4	US-10-062-710-306

28	46	100.0	15	4	US-10-648-547-72	Sequence 72, App1
29	46	100.0	15	4	US-10-648-547-80	Sequence 80, App1
30	46	100.0	15	4	US-10-648-547-92	Sequence 92, App1
31	46	100.0	15	4	US-10-476-570-45	Sequence 45, App1
32	46	100.0	15	4	US-10-476-570-46	Sequence 46, App1
33	46	100.0	15	4	US-10-306-541-72	Sequence 72, App1
34	46	100.0	15	4	US-10-306-541-80	Sequence 80, App1
35	46	100.0	15	4	US-10-306-541-92	Sequence 92, App1
36	46	100.0	15	4	US-10-751-845-67	Sequence 67, App1
37	46	100.0	19	5	US-10-432-465-44	Sequence 44, App1
38	46	100.0	20	4	US-10-432-465-45	Sequence 45, App1
39	46	100.0	20	4	US-10-476-570-14	Sequence 14, App1
40	46	100.0	20	5	US-10-890-526-69	Sequence 69, App1
41	46	100.0	20	5	US-10-890-526-70	Sequence 70, App1
42	46	100.0	21	4	US-10-476-570-15	Sequence 15, App1
43	46	100.0	21	5	US-10-776-521B-78	Sequence 78, App
44	46	100.0	23	4	US-10-476-570-57	Sequence 57, App1
45	46	100.0	23	5	US-10-858-384-14	Sequence 14, App1
46	46	100.0	30	3	US-09-828-645-3	Sequence 3, App1
47	46	100.0	30	3	US-09-828-645-7	Sequence 7, App1
48	46	100.0	30	5	US-10-827-007-3	Sequence 3, App1
49	46	100.0	30	5	US-10-827-007-7	Sequence 7, App1
50	46	100.0	30	5	US-10-827-083-3	Sequence 3, App1
51	46	100.0	30	5	US-10-827-083-7	Sequence 7, App1
52	46	100.0	31	3	US-09-739-466C-46	Sequence 46, App1
53	46	100.0	98	3	US-09-728-466-1	Sequence 1, App1
54	46	100.0	98	3	US-09-820-765-4	Sequence 4, App1
55	46	100.0	98	3	US-09-824-017-4	Sequence 4, App1
56	46	100.0	98	3	US-09-986-118A-4	Sequence 4, App1
57	46	100.0	98	4	US-10-267-311-8	Sequence 8, App1
58	46	100.0	98	4	US-10-177-390-8	Sequence 8, App1
59	46	100.0	98	4	US-10-392-113-29	Sequence 29, App1
60	46	100.0	98	4	US-10-654-128-4	Sequence 4, App1
61	46	100.0	98	4	US-10-681-410-19	Sequence 19, App1
62	46	100.0	98	4	US-10-772-988-3	Sequence 3, App1
63	46	100.0	98	4	US-10-479-541-5	Sequence 5, App1
64	46	100.0	98	5	US-10-042-526A-4	Sequence 4, App1
65	46	100.0	98	5	US-10-657-399-1	Sequence 1, App1
66	46	100.0	98	5	US-10-858-384-12	Sequence 12, App1
67	46	100.0	98	5	US-10-484-063-26	Sequence 26, App1
68	46	100.0	98	5	US-10-343-448-5	Sequence 5, App1
69	46	100.0	98	5	US-10-679-956-8	Sequence 8, App1
70	46	100.0	98	5	US-10-367-057-17	Sequence 17, App1
71	46	100.0	98	6	US-11-077-939-5	Sequence 5, App1
72	46	100.0	99	4	US-10-115-440-7	Sequence 7, App1
73	46	100.0	111	4	US-10-472-724-4	Sequence 4, App1
74	46	100.0	117	5	US-10-751-845-126	Sequence 126, App
75	46	100.0	121	4	US-10-267-311-12	Sequence 12, App1
76	46	100.0	121	5	US-10-679-956-12	Sequence 12, App1
77	46	100.0	121	5	US-11-072-288-2	Sequence 2, App1
78	46	100.0	185	6	US-10-267-311-35	Sequence 35, App1
79	46	100.0	198	4	US-10-679-956-35	Sequence 35, App1
80	46	100.0	220	5	US-10-000-903-1	Sequence 1, App1
81	46	100.0	220	4	US-10-000-903-8	Sequence 8, App1
82	46	100.0	220	5	US-10-899-771-1	Sequence 1, App1
83	46	100.0	220	5	US-10-899-771-8	Sequence 8, App1
84	46	100.0	226	5	US-10-751-845-157	Sequence 157, App
85	46	100.0	227	5	US-10-751-845-158	Sequence 158, App
86	46	100.0	229	4	US-10-000-903-12	Sequence 12, App1
87	46	100.0	229	5	US-10-899-771-12	Sequence 12, App1
88	46	100.0	221	5	US-10-751-845-160	Sequence 160, App
89	46	100.0	266	3	US-09-367-309A-1	Sequence 1, App1
90	46	100.0	269	4	US-10-115-440-5	Sequence 5, App1
91	46	100.0	295	5	US-10-267-311-33	Sequence 33, App1
92	46	100.0	324	5	US-10-679-956-33	Sequence 33, App1
93	46	100.0	324	5	US-10-267-311-25	Sequence 25, App1
94	46	100.0	334	4	US-10-679-956-25	Sequence 25, App1
95	46	100.0	334	4	US-10-472-724-10	Sequence 10, App1
96	46	100.0	371	4	US-10-000-903-6	Sequence 6, App1
97	46	100.0	371	5	US-10-899-771-6	Sequence 6, App1
98	46	100.0	390	4	US-10-000-903-14	Sequence 14, App1
99	46	100.0	390	5	US-10-899-771-14	Sequence 14, App1
100	46	100.0				

101	46	100.0	421	4	US-10-296-770-7	Sequence 7, Appl1	174	34	73.9	2777	4	US-10-220-597-4	Sequence 4, Appl1
102	46	100.0	493	4	US-10-267-311-19	Sequence 19, Appl	175	34	73.9	2777	4	US-10-423-493-4	Sequence 4, Appl1
103	46	100.0	493	5	US-10-679-956-19	Sequence 19, Appl	176	34	73.9	2777	5	US-10-912-280-4	Sequence 4, Appl1
104	46	100.0	639	4	US-10-267-311-17	Sequence 17, Appl	177	34	73.9	3838	4	US-10-262-511-162	Sequence 162, App
105	46	100.0	639	5	US-10-679-956-17	Sequence 17, Appl	178	34	73.9	6304	4	US-10-147-026-16	Sequence 16, Appl
106	46	100.0	641	4	US-10-267-311-51	Sequence 51, Appl	179	33	71.7	104	3	US-09-933-767-334	Sequence 134, App
107	46	100.0	641	5	US-10-679-956-51	Sequence 51, Appl	180	33	71.7	104	4	US-10-004-860-434	Sequence 434, App
108	46	100.0	647	5	US-10-267-311-53	Sequence 53, Appl	181	33	71.7	104	4	US-10-023-282-434	Sequence 434, App
109	46	100.0	647	5	US-10-679-956-53	Sequence 53, Appl	182	33	71.7	324	4	US-10-425-114-50557	Sequence 60557, A
110	46	100.0	648	5	US-10-267-311-29	Sequence 29, Appl	183	33	71.7	333	3	US-09-815-242-11170	Sequence 11170, A
111	46	100.0	648	5	US-10-679-956-29	Sequence 29, Appl	184	33	71.7	333	3	US-10-282-122A-58387	Sequence 58387, A
112	46	100.0	711	4	US-10-267-311-41	Sequence 41, Appl	185	33	71.7	335	4	US-10-282-122A-66984	Sequence 66984, A
113	46	100.0	711	5	US-10-679-956-41	Sequence 41, Appl	186	33	71.7	359	5	US-10-872-762-2	Sequence 2, Appl1
114	46	100.0	724	4	US-10-267-311-45	Sequence 45, Appl	187	33	71.7	387	4	US-10-425-115-250457	Sequence 250457, A
115	46	100.0	724	5	US-10-679-956-45	Sequence 45, Appl	188	33	71.7	414	4	US-10-473-670-8	Sequence 8, Appl1
116	46	100.0	805	4	US-10-367-095-9	Sequence 9, Appl1	189	33	71.7	414	4	US-10-618-941-98	Sequence 98, Appl1
117	46	100.0	805	4	US-10-368-046-9	Sequence 9, Appl1	190	33	71.7	448	6	US-11-097-143-11320	Sequence 31320, A
118	46	100.0	805	4	US-10-367-367-9	Sequence 9, Appl1	191	33	71.7	495	4	US-10-171-311-60	Sequence 60, Appl
119	46	100.0	805	5	US-10-918-337-9	Sequence 9, Appl1	192	33	71.7	495	4	US-10-308-448-30	Sequence 30, Appl
120	41	89.1	9	3	US-09-759-960-17	Sequence 17, Appl	193	33	71.7	495	5	US-10-287-436A-613	Sequence 613, App
121	41	89.1	9	3	US-09-891-823-3	Sequence 3, Appl1	194	33	71.7	511	4	US-10-369-493-19512	Sequence 19512, A
122	41	89.1	9	3	US-09-909-460-104	Sequence 104, App	195	33	71.7	538	6	US-11-097-143-7314	Sequence 7314, Ap
123	41	89.1	9	4	US-09-872-836-104	Sequence 104, App	196	33	71.7	576	3	US-09-364-847-37	Sequence 37, Appl
124	41	89.1	9	4	US-10-128-711-66	Sequence 66, Appl	197	33	71.7	652	5	US-10-625-972-6	Sequence 6, Appl1
125	41	89.1	9	4	US-10-365-908-3	Sequence 3, Appl1	198	33	71.7	710	4	US-10-158-057-249	Sequence 249, App
126	41	89.1	9	5	US-10-603-062-17	Sequence 17, Appl	199	33	71.7	712	3	US-09-364-847-49	Sequence 49, Appl
127	41	89.1	9	5	US-10-871-138-3	Sequence 3, Appl1	200	33	71.7	712	3	US-09-364-847-51	Sequence 51, Appl
128	41	89.1	9	5	US-10-758-970-104	Sequence 104, App	201	33	71.7	847	4	US-10-245-752-94	Sequence 94, Appl
129	41	89.1	9	5	US-10-751-845-58	Sequence 58, Appl	202	33	71.7	847	4	US-10-245-859-94	Sequence 94, Appl
130	41	89.1	10	4	US-10-062-710-228	Sequence 228, App	203	33	71.7	847	4	US-10-245-103-94	Sequence 94, Appl
131	41	89.1	15	4	US-10-476-570-47	Sequence 47, Appl	204	33	71.7	847	4	US-10-245-107-94	Sequence 94, Appl
132	37	80.4	9	5	US-10-484-063-13	Sequence 13, Appl	205	33	71.7	847	4	US-10-245-173-94	Sequence 94, Appl
133	37	80.4	9	5	US-10-751-845-103	Sequence 103, App	206	33	71.7	847	4	US-10-245-171-94	Sequence 94, Appl
134	37	80.4	10	5	US-10-425-115-318912	Sequence 99, Appl	207	33	71.7	847	4	US-10-245-851-94	Sequence 94, Appl
135	37	80.4	161	4	US-10-425-115-318912	Sequence 99, Appl	208	33	71.7	847	4	US-10-245-883-94	Sequence 94, Appl
136	37	80.4	599	4	US-10-369-493-17162	Sequence 17162, A	209	33	71.7	847	4	US-10-237-535-94	Sequence 94, Appl
137	36	78.3	321	4	US-10-425-115-224979	Sequence 224979, A	210	33	71.7	847	4	US-10-238-183-94	Sequence 94, Appl
138	36	78.3	488	4	US-10-367-095-8	Sequence 8, Appl1	211	33	71.7	847	4	US-10-238-283-94	Sequence 94, Appl
139	36	78.3	488	4	US-10-368-046-8	Sequence 8, Appl1	212	33	71.7	847	4	US-10-238-370-94	Sequence 94, Appl
140	36	78.3	488	4	US-10-367-367-8	Sequence 8, Appl1	213	33	71.7	847	4	US-10-235-055-94	Sequence 94, Appl
141	36	78.3	488	5	US-10-918-337-8	Sequence 8, Appl1	214	33	71.7	847	4	US-10-245-147-94	Sequence 94, Appl
142	36	78.3	606	3	US-09-071-035-240	Sequence 240, App	215	33	71.7	847	4	US-10-245-730-94	Sequence 94, Appl
143	36	78.3	606	4	US-10-206-576-240	Sequence 240, App	216	33	71.7	847	4	US-10-245-739-94	Sequence 94, Appl
144	36	78.3	606	5	US-10-912-362-240	Sequence 240, App	217	33	71.7	847	4	US-10-246-210-94	Sequence 94, Appl
145	36	78.3	1223	3	US-09-071-035-236	Sequence 236, App	218	33	71.7	847	4	US-10-239-196-94	Sequence 94, Appl
146	36	78.3	1223	4	US-10-206-576-236	Sequence 236, App	219	33	71.7	847	4	US-10-243-024-94	Sequence 94, Appl
147	36	78.3	1223	5	US-10-912-362-236	Sequence 236, App	220	33	71.7	847	4	US-10-243-409-94	Sequence 94, Appl
148	36	78.3	1301	3	US-09-071-035-234	Sequence 234, App	221	33	71.7	847	4	US-10-245-621-94	Sequence 94, Appl
149	36	78.3	1301	3	US-09-071-035-238	Sequence 238, App	222	33	71.7	847	4	US-10-245-880-94	Sequence 94, Appl
150	36	78.3	1301	3	US-09-071-035-242	Sequence 242, App	223	33	71.7	847	4	US-10-245-033-94	Sequence 94, Appl
151	36	78.3	1301	4	US-10-206-576-234	Sequence 238, App	224	33	71.7	847	4	US-10-243-095-94	Sequence 94, Appl
152	36	78.3	1301	4	US-10-206-576-238	Sequence 238, App	225	33	71.7	847	4	US-10-245-185-94	Sequence 94, Appl
153	36	78.3	1301	5	US-10-206-576-242	Sequence 242, App	226	33	71.7	847	4	US-10-245-427-94	Sequence 94, Appl
154	36	78.3	1301	5	US-10-912-362-234	Sequence 234, App	227	33	71.7	847	4	US-10-245-473-94	Sequence 94, Appl
155	36	78.3	1301	5	US-10-912-362-238	Sequence 238, App	228	33	71.7	847	4	US-10-245-770-94	Sequence 94, Appl
156	36	78.3	1301	5	US-10-912-362-242	Sequence 242, App	229	33	71.7	847	4	US-10-246-976-94	Sequence 94, Appl
157	36	78.3	2780	4	US-10-220-587-2	Sequence 2, Appl1	230	33	71.7	847	4	US-10-243-320-94	Sequence 94, Appl
158	36	78.3	2780	4	US-10-423-483-2	Sequence 2, Appl1	231	33	71.7	847	4	US-10-242-743-94	Sequence 94, Appl
159	36	78.3	2780	5	US-10-912-280-2	Sequence 2, Appl1	232	33	71.7	847	4	US-10-242-743-94	Sequence 94, Appl
160	36	78.3	10917	5	US-10-733-993-20606	Sequence 20606, A	233	33	71.7	847	4	US-10-242-845-94	Sequence 94, Appl
161	34	73.9	324	4	US-10-388-566-1034	Sequence 1034, Ap	234	33	71.7	847	4	US-10-237-636-94	Sequence 94, Appl
162	34	73.9	324	5	US-10-733-923-17878	Sequence 17878, A	235	33	71.7	847	4	US-10-238-325-94	Sequence 94, Appl
163	34	73.9	356	4	US-10-357-521-5	Sequence 5, Appl1	236	33	71.7	847	4	US-10-238-346-94	Sequence 94, Appl
164	34	73.9	468	3	US-09-746-6604A-66	Sequence 66, Appl	237	33	71.7	847	4	US-10-238-411-94	Sequence 94, Appl
165	34	73.9	468	4	US-10-627-476-324	Sequence 324, App	238	33	71.7	847	4	US-10-243-125-94	Sequence 94, Appl
166	34	73.9	646	5	US-10-733-923-2555	Sequence 2555, Ap	239	33	71.7	847	4	US-10-243-425-94	Sequence 94, Appl
167	34	73.9	698	5	US-10-733-923-2553	Sequence 2553, Ap	240	33	71.7	847	4	US-10-243-446-94	Sequence 94, Appl
168	34	73.9	1247	5	US-10-733-923-2554	Sequence 2554, Ap	241	33	71.7	847	4	US-10-245-674-94	Sequence 94, Appl
169	34	73.9	1247	5	US-09-738-626-4751	Sequence 4751, Ap	242	33	71.7	847	4	US-10-242-653-94	Sequence 94, Appl
170	34	73.9	1247	5	US-10-494-675-84	Sequence 84, Appl	243	33	71.7	847	4	US-10-243-167-94	Sequence 94, Appl
171	34	73.9	1469	4	US-10-262-511-164	Sequence 164, App	244	33	71.7	847	4	US-10-243-388-94	Sequence 94, Appl
172	34	73.9	2753	4	US-10-262-511-160	Sequence 160, App	245	33	71.7	847	4	US-10-244-947-94	Sequence 94, Appl
173	34	73.9	2753	4	US-10-262-511-166	Sequence 166, App	246	33	71.7	847	4	US-10-244-968-94	Sequence 94, Appl

247	33	71.7	847	4	US-10-244-990-94	Sequence 94, Appl	320	32	69.6	273	4	US-10-425-114-63557	Sequence 63557, A
248	33	71.7	847	4	US-10-245-079-94	Sequence 94, Appl	321	32	69.6	289	4	US-10-299-058-13	Sequence 13, Appl
249	33	71.7	847	4	US-10-245-127-94	Sequence 94, Appl	322	32	69.6	296	4	US-10-299-058-5	Sequence 5, Appl
250	33	71.7	847	4	US-10-245-207-94	Sequence 94, Appl	323	32	69.6	296	4	US-10-299-058-6	Sequence 6, Appl
251	33	71.7	847	4	US-10-245-646-94	Sequence 94, Appl	324	32	69.6	302	4	US-10-425-115-34093	Sequence 34093, A
252	33	71.7	847	4	US-10-245-695-94	Sequence 94, Appl	325	32	69.6	304	4	US-10-072-012-583	Sequence 583, App
253	33	71.7	847	4	US-10-245-699-94	Sequence 94, Appl	326	32	69.6	322	4	US-10-369-493-11978	Sequence 11978, A
254	33	71.7	847	4	US-10-245-737-94	Sequence 94, Appl	327	32	69.6	367	4	US-10-425-115-256685	Sequence 256685, A
255	33	71.7	847	4	US-10-245-878-94	Sequence 94, Appl	328	32	69.6	434	3	US-09-892-877-144	Sequence 144, App
256	33	71.7	847	4	US-10-245-890-94	Sequence 94, Appl	329	32	69.6	434	3	US-09-948-783-146	Sequence 146, App
257	33	71.7	847	4	US-10-245-899-94	Sequence 94, Appl	330	32	69.6	434	3	US-10-050-704-181	Sequence 181, App
258	33	71.7	847	4	US-10-245-900-94	Sequence 94, Appl	331	32	69.6	434	3	US-10-798-512-181	Sequence 181, App
259	33	71.7	847	4	US-10-247-058-94	Sequence 94, Appl	332	32	69.6	450	5	US-09-809-665A-28	Sequence 28, Appl
260	33	71.7	847	4	US-10-245-454-94	Sequence 94, Appl	333	32	69.6	450	5	US-10-854-299-28	Sequence 28, Appl
261	33	71.7	847	4	US-10-237-471-94	Sequence 94, Appl	334	32	69.6	466	5	US-10-481-022A-174	Sequence 299734, A
262	33	71.7	847	4	US-10-238-261-94	Sequence 94, Appl	335	32	69.6	491	4	US-10-425-115-289774	Sequence 112039, A
263	33	71.7	847	4	US-10-238-324-94	Sequence 94, Appl	336	32	69.6	531	4	US-10-437-963-112039	Sequence 77, Appl
264	33	71.7	847	4	US-10-241-860-94	Sequence 94, Appl	337	32	69.6	548	4	US-10-047-542-77	Sequence 236, App
265	33	71.7	847	4	US-10-242-172-94	Sequence 94, Appl	338	32	69.6	548	4	US-10-047-542-78	Sequence 236, App
266	33	71.7	847	4	US-10-242-652-94	Sequence 94, Appl	339	32	69.6	563	4	US-10-437-963-125580	Sequence 125580, A
267	33	71.7	847	4	US-10-242-690-94	Sequence 94, Appl	340	32	69.6	567	4	US-10-437-963-125591	Sequence 46158, A
268	33	71.7	847	4	US-10-243-023-94	Sequence 94, Appl	341	32	69.6	567	4	US-10-425-115-269318	Sequence 269318, A
269	33	71.7	847	4	US-10-243-103-94	Sequence 94, Appl	342	32	69.6	567	4	US-10-739-930-8373	Sequence 8373, Ap
270	33	71.7	847	4	US-10-243-276-94	Sequence 94, Appl	343	32	69.6	567	5	US-10-437-963-125568	Sequence 125568, A
271	33	71.7	847	4	US-10-243-326-94	Sequence 94, Appl	344	32	69.6	576	4	US-10-425-114-45535	Sequence 45535, A
272	33	71.7	847	4	US-10-243-364-94	Sequence 94, Appl	345	32	69.6	600	4	US-10-481-032A-160	Sequence 160, App
273	33	71.7	847	4	US-10-243-494-94	Sequence 94, Appl	346	32	69.6	629	5	US-10-481-032A-172	Sequence 172, App
274	33	71.7	847	4	US-10-244-995-94	Sequence 94, Appl	347	32	69.6	655	4	US-10-369-493-351	Sequence 351, App
275	33	71.7	847	4	US-10-245-230-94	Sequence 94, Appl	348	32	69.6	655	4	US-09-809-665A-105	Sequence 105, App
276	33	71.7	847	4	US-10-245-253-94	Sequence 94, Appl	349	32	69.6	669	3	US-10-854-299-105	Sequence 125513, A
277	33	71.7	847	4	US-10-245-875-94	Sequence 94, Appl	350	32	69.6	689	5	US-10-437-963-125613	Sequence 72659, A
278	33	71.7	847	4	US-10-245-499-94	Sequence 94, Appl	351	32	69.6	719	4	US-10-282-122A-72669	Sequence 52827, A
279	33	71.7	847	4	US-10-245-772-94	Sequence 94, Appl	352	32	69.6	723	4	US-10-282-122A-76150	Sequence 76150, A
280	33	71.7	847	4	US-10-245-811-94	Sequence 94, Appl	353	32	69.6	726	4	US-10-369-493-1125	Sequence 43344, A
281	33	71.7	847	4	US-10-245-812-94	Sequence 94, Appl	354	32	69.6	731	5	US-10-450-763-43344	Sequence 43344, A
282	33	71.7	847	4	US-10-245-852-94	Sequence 94, Appl	355	32	69.6	736	4	US-10-425-115-231679	Sequence 231679, A
283	33	71.7	847	4	US-10-245-881-94	Sequence 94, Appl	356	32	69.6	1094	4	US-10-732-923-332	Sequence 3322, Ap
284	33	71.7	847	4	US-10-245-881-94	Sequence 94, Appl	357	32	69.6	1107	5	US-09-738-626-4574	Sequence 4574, Ap
285	33	71.7	847	4	US-10-245-911-94	Sequence 94, Appl	358	32	69.6	1259	4	US-10-282-122A-75300	Sequence 75300, A
286	33	71.7	847	4	US-10-245-913-94	Sequence 94, Appl	359	32	69.6	1274	4	US-10-142-515-11	Sequence 11, Appl
287	33	71.7	847	4	US-10-246-080-94	Sequence 94, Appl	360	32	69.6	1398	4	US-10-425-115-231618	Sequence 231618, A
288	33	71.7	847	4	US-10-246-121-94	Sequence 94, Appl	361	32	69.6	1595	5	US-10-243-243A-8	Sequence 8, Appl
289	33	71.7	847	4	US-10-246-305-94	Sequence 94, Appl	362	32	69.6	1595	5	US-10-243-243A-8	Sequence 8, Appl
290	33	71.7	847	4	US-10-246-929-94	Sequence 94, Appl	363	32	69.6	1937	4	US-10-983-340-4	Sequence 4, Appl
291	33	71.7	847	4	US-10-247-036-94	Sequence 94, Appl	364	32	69.6	2152	4	US-10-715-065-5	Sequence 5, Appl
292	33	71.7	847	4	US-10-243-255-94	Sequence 94, Appl	365	32	69.6	2252	4	US-09-891-823-26	Sequence 26, Appl
293	33	71.7	847	4	US-10-245-810-94	Sequence 94, Appl	366	32	69.6	2252	4	US-10-365-908-26	Sequence 26, Appl
294	33	71.7	847	4	US-10-245-810-94	Sequence 94, Appl	367	32	69.6	2252	4	US-10-365-908-26	Sequence 26, Appl
295	33	71.7	847	4	US-10-246-098-94	Sequence 94, Appl	368	32	69.6	2252	4	US-10-365-908-26	Sequence 26, Appl
296	33	71.7	847	4	US-10-237-496-94	Sequence 94, Appl	369	32	69.6	2252	4	US-10-365-908-26	Sequence 26, Appl
297	33	71.7	847	4	US-10-242-074-94	Sequence 94, Appl	370	32	69.6	2252	4	US-10-365-908-26	Sequence 26, Appl
298	33	71.7	847	4	US-10-242-505-94	Sequence 94, Appl	371	32	69.6	2252	4	US-10-365-908-26	Sequence 26, Appl
299	33	71.7	847	4	US-10-242-574-94	Sequence 94, Appl	372	32	69.6	2252	4	US-10-365-908-26	Sequence 26, Appl
300	33	71.7	847	4	US-10-242-574-94	Sequence 94, Appl	373	32	69.6	2252	4	US-10-365-908-26	Sequence 26, Appl
301	33	71.7	847	4	US-10-243-282-94	Sequence 94, Appl	374	32	69.6	2252	4	US-10-365-908-26	Sequence 26, Appl
302	33	71.7	847	4	US-10-243-402-94	Sequence 94, Appl	375	32	69.6	2252	4	US-10-365-908-26	Sequence 26, Appl
303	33	71.7	847	4	US-10-243-431-94	Sequence 94, Appl	376	32	69.6	2252	4	US-10-365-908-26	Sequence 26, Appl
304	33	71.7	847	4	US-10-243-431-94	Sequence 94, Appl	377	32	69.6	2252	4	US-10-365-908-26	Sequence 26, Appl
305	33	71.7	847	4	US-10-243-431-94	Sequence 94, Appl	378	32	69.6	2252	4	US-10-365-908-26	Sequence 26, Appl
306	33	71.7	847	4	US-10-243-431-94	Sequence 94, Appl	379	32	69.6	2252	4	US-10-365-908-26	Sequence 26, Appl
307	33	71.7	847	4	US-10-243-431-94	Sequence 94, Appl	380	32	69.6	2252	4	US-10-365-908-26	Sequence 26, Appl
308	33	71.7	847	4	US-10-243-431-94	Sequence 94, Appl	381	32	69.6	2252	4	US-10-365-908-26	Sequence 26, Appl
309	33	71.7	847	4	US-10-243-431-94	Sequence 94, Appl	382	32	69.6	2252	4	US-10-365-908-26	Sequence 26, Appl
310	33	71.7	847	4	US-10-243-431-94	Sequence 94, Appl	383	32	69.6	2252	4	US-10-365-908-26	Sequence 26, Appl
311	33	71.7	847	4	US-10-243-431-94	Sequence 94, Appl	384	32	69.6	2252	4	US-10-365-908-26	Sequence 26, Appl
312	33	71.7	847	4	US-10-243-431-94	Sequence 94, Appl	385	32	69.6	2252	4	US-10-365-908-26	Sequence 26, Appl
313	33	71.7	847	4	US-10-243-431-94	Sequence 94, Appl	386	32	69.6	2252	4	US-10-365-908-26	Sequence 26, Appl
314	33	71.7	847	4	US-10-243-431-94	Sequence 94, Appl	387	32	69.6	2252	4	US-10-365-908-26	Sequence 26, Appl
315	33	71.7	847	4	US-10-243-431-94	Sequence 94, Appl	388	32	69.6	2252	4	US-10-365-908-26	Sequence 26, Appl
316	33	71.7	847	4	US-10-243-431-94	Sequence 94, Appl	389	32	69.6	2252	4	US-10-365-908-26	Sequence 26, Appl
317	33	71.7	847	4	US-10-243-431-94	Sequence 94, Appl	390	32	69.6	2252	4	US-10-365-908-26	Sequence 26, Appl
318	33	71.7	847	4	US-10-243-431-94	Sequence 94, Appl	391	32	69.6	2252	4	US-10-365-908-26	Sequence 26, Appl
319	33	71.7	847	4	US-10-243-431-94	Sequence 94, Appl	392	32	69.6	2252	4	US-10-365-908-26	Sequence 26, Appl

393	31	67.4	227	4	US-10-418-972-80	Sequence 80, Appl	466	31	67.4	964	6	US-11-007-664-39	Sequence 39, Appl
394	31	67.4	228	4	US-10-418-972-33	Sequence 33, Appl	467	31	67.4	964	6	US-11-007-669-39	Sequence 39, Appl
395	31	67.4	243	4	US-10-097-340-350	Sequence 350, App	468	31	67.4	976	5	US-10-736-149-5042	Sequence 5042, Ap
396	31	67.4	243	6	US-11-050-926-350	Sequence 350, App	469	31	67.4	984	4	US-10-354-358-102	Sequence 102, App
397	31	67.4	248	4	US-10-097-340-351	Sequence 351, App	470	31	67.4	984	4	US-10-116-275-147	Sequence 147, App
398	31	67.4	248	6	US-11-050-926-351	Sequence 351, App	471	31	67.4	984	5	US-10-631-467-804	Sequence 804, App
399	31	67.4	252	4	US-10-097-340-353	Sequence 353, App	472	31	67.4	1074	6	US-11-097-143-9997	Sequence 9997, Ap
400	31	67.4	252	6	US-11-050-926-353	Sequence 353, App	473	31	67.4	1084	4	US-10-437-963-144916	Sequence 144916,
401	31	67.4	255	4	US-10-219-834-25	Sequence 25, App	474	31	67.4	1117	4	US-10-437-963-144917	Sequence 144917,
402	31	67.4	255	4	US-10-311-671-13	Sequence 13, Appl	475	31	67.4	1123	4	US-10-425-114-62713	Sequence 62713, A
403	31	67.4	255	4	US-10-418-972-3	Sequence 3, Appl1	476	31	67.4	1140	4	US-10-418-972-83	Sequence 83, Appl
404	31	67.4	255	4	US-10-418-972-5	Sequence 5, Appl1	477	31	67.4	1199	5	US-10-156-761-14467	Sequence 8467, Ap
405	31	67.4	255	4	US-10-418-972-7	Sequence 7, Appl1	478	31	67.4	1209	5	US-10-626-832-37	Sequence 37, Appl
406	31	67.4	255	4	US-10-418-972-9	Sequence 9, Appl1	479	31	67.4	1266	4	US-10-418-972-25	Sequence 25, Appl
407	31	67.4	255	4	US-10-418-972-11	Sequence 11, Appl	480	31	67.4	1266	4	US-10-418-972-27	Sequence 27, Appl
408	31	67.4	255	4	US-10-418-972-13	Sequence 13, Appl	481	31	67.4	1266	4	US-10-418-972-32	Sequence 32, Appl
409	31	67.4	255	4	US-10-418-972-15	Sequence 15, Appl	482	31	67.4	1266	4	US-10-418-972-73	Sequence 73, Appl
410	31	67.4	255	4	US-10-418-972-17	Sequence 17, Appl	483	31	67.4	1266	4	US-10-418-972-79	Sequence 79, Appl
411	31	67.4	255	4	US-10-418-972-19	Sequence 19, Appl	484	31	67.4	1391	6	US-11-097-143-3222	Sequence 3232, Ap
412	31	67.4	255	4	US-10-418-972-21	Sequence 21, Appl	485	31	67.4	1466	5	US-10-437-963-123197	Sequence 123197,
413	31	67.4	255	4	US-10-418-972-23	Sequence 23, Appl	486	31	67.4	1478	5	US-10-732-923-3353	Sequence 3353, Ap
414	31	67.4	255	4	US-10-418-972-28	Sequence 28, Appl	487	31	67.4	1478	5	US-09-866-557A-4	Sequence 4, Appl1
415	31	67.4	255	4	US-10-418-972-29	Sequence 29, Appl	488	31	67.4	2249	3	US-09-866-557A-4	Sequence 4, Appl1
416	31	67.4	255	4	US-10-418-972-30	Sequence 30, Appl	489	31	67.4	2249	4	US-10-055-797-4	Sequence 4, Appl1
417	31	67.4	255	4	US-10-418-972-31	Sequence 31, Appl	490	31	67.4	2249	4	US-10-350-798-4	Sequence 4, Appl1
418	31	67.4	255	4	US-10-418-972-57	Sequence 57, Appl	491	31	67.4	2249	6	US-11-097-143-9723	Sequence 9723, Ap
419	31	67.4	255	4	US-10-418-972-82	Sequence 82, Appl	492	31	67.4	3647	4	US-10-437-963-119793	Sequence 119793,
420	31	67.4	255	6	US-11-100-583-13	Sequence 13, Appl	493	31	67.4	6815	6	US-11-097-143-37225	Sequence 37225, A
421	31	67.4	257	5	US-10-732-923-2513	Sequence 2513, Ap	494	30	65.2	35	4	US-10-231-417-559	Sequence 41, Appl
422	31	67.4	267	4	US-10-097-340-355	Sequence 355, App	495	30	65.2	35	4	US-10-335-057A-41	Sequence 45, Appl
423	31	67.4	267	6	US-11-050-926-355	Sequence 355, App	496	30	65.2	37	4	US-10-335-057A-36	Sequence 36, Appl
424	31	67.4	282	4	US-10-437-963-144914	Sequence 144914,	497	30	65.2	42	3	US-09-864-761-45400	Sequence 45400, A
425	31	67.4	315	4	US-10-425-114-70048	Sequence 70048, A	498	30	65.2	52	4	US-10-425-115-653128	Sequence 263128,
426	31	67.4	324	4	US-10-424-599-246775	Sequence 246775,	499	30	65.2	57	3	US-09-832-129-51	Sequence 51, Appl
427	31	67.4	328	4	US-10-767-701-38418	Sequence 38418, A	500	30	65.2	57	3	US-09-833-245-2241	Sequence 2241, Ap
428	31	67.4	330	4	US-10-371-701-19	Sequence 19, Appl	501	30	65.2	57	4	US-10-733-368-51	Sequence 51, Appl
429	31	67.4	330	4	US-10-371-701-25	Sequence 25, Appl	502	30	65.2	62	4	US-10-424-599-47589	Sequence 47589,
430	31	67.4	337	4	US-10-389-566-1786	Sequence 1786, Ap	503	30	65.2	70	4	US-10-767-701-47472	Sequence 47472, A
431	31	67.4	337	5	US-10-732-923-17923	Sequence 17923, A	504	30	65.2	82	4	US-10-437-963-136704	Sequence 136704,
432	31	67.4	341	4	US-10-425-115-231688	Sequence 231688,	505	30	65.2	87	3	US-09-864-408A-5754	Sequence 5754, Ap
433	31	67.4	367	4	US-10-424-599-147395	Sequence 147395,	506	30	65.2	89	4	US-10-425-115-335656	Sequence 335656,
434	31	67.4	384	4	US-10-104-047-2534	Sequence 2534, Ap	507	30	65.2	94	4	US-10-156-761-9420	Sequence 9420, Ap
435	31	67.4	390	5	US-10-450-763-60652	Sequence 60652, A	508	30	65.2	98	4	US-10-425-115-433608	Sequence 343608,
436	31	67.4	398	5	US-10-495-455-20	Sequence 20, Appl	509	30	65.2	100	4	US-10-424-599-155139	Sequence 155139,
437	31	67.4	398	5	US-10-495-455-32	Sequence 32, Appl	510	30	65.2	101	3	US-09-864-408A-6514	Sequence 6514, Ap
438	31	67.4	404	4	US-10-320-797-3140	Sequence 3140, Ap	511	30	65.2	116	4	US-10-437-963-128773	Sequence 128773,
439	31	67.4	437	4	US-10-425-114-44447	Sequence 44447, A	512	30	65.2	121	3	US-09-764-868-838	Sequence 838, App
440	31	67.4	452	4	US-10-437-963-203614	Sequence 203614,	513	30	65.2	121	3	US-09-764-875-780	Sequence 780, App
441	31	67.4	458	4	US-10-425-115-251196	Sequence 251196,	514	30	65.2	135	4	US-10-424-599-125394	Sequence 125394,
442	31	67.4	465	5	US-10-658-223-11	Sequence 11, Appl	515	30	65.2	140	5	US-10-296-115-986	Sequence 986, App
443	31	67.4	470	4	US-10-389-566-1043	Sequence 1043, Ap	516	30	65.2	140	5	US-10-965-898-6	Sequence 6, Appl1
444	31	67.4	487	4	US-10-437-963-177542	Sequence 177542,	517	30	65.2	147	3	US-09-738-626-6146	Sequence 6146, Ap
445	31	67.4	493	3	US-10-437-963-186380	Sequence 186380,	518	30	65.2	149	4	US-10-437-963-142946	Sequence 142946,
446	31	67.4	501	3	US-09-323-9988D-55	Sequence 55, Appl	519	30	65.2	155	3	US-09-783-320-26	Sequence 26, Appl
447	31	67.4	515	4	US-10-425-114-40728	Sequence 40728, A	520	30	65.2	171	4	US-10-106-698-4320	Sequence 4320, Ap
448	31	67.4	531	4	US-10-424-599-190122	Sequence 190122,	521	30	65.2	171	4	US-10-221-417-557	Sequence 557, App
449	31	67.4	533	4	US-10-424-599-215899	Sequence 215899,	522	30	65.2	171	4	US-10-291-172-375	Sequence 375, App
450	31	67.4	562	5	US-10-369-493-6784	Sequence 6784, Ap	523	30	65.2	184	4	US-10-221-278-775	Sequence 775, App
451	31	67.4	585	5	US-10-489-425-46	Sequence 46, Appl	524	30	65.2	184	3	US-09-783-320-28	Sequence 28, Appl
452	31	67.4	595	5	US-10-658-232-17	Sequence 17, Appl	525	30	65.2	195	3	US-09-783-320-42	Sequence 42, Appl
453	31	67.4	637	6	US-10-270-333-168	Sequence 168, App	526	30	65.2	211	3	US-09-783-320-42	Sequence 36, Appl
454	31	67.4	637	6	US-11-097-143-33003	Sequence 33003, A	527	30	65.2	224	3	US-09-783-320-36	Sequence 36, Appl
455	31	67.4	845	3	US-09-815-242-5433	Sequence 5433, Ap	528	30	65.2	227	4	US-10-425-114-18396	Sequence 38396, A
456	31	67.4	867	3	US-09-815-242-10654	Sequence 10654, A	529	30	65.2	232	5	US-10-458-327-181	Sequence 181, App
457	31	67.4	869	3	US-10-282-122A-56931	Sequence 56931, A	530	30	65.2	240	4	US-09-783-320-44	Sequence 44, Appl
458	31	67.4	869	3	US-09-815-242-12266	Sequence 12266, A	531	30	65.2	260	4	US-10-437-963-125687	Sequence 125687,
459	31	67.4	869	4	US-10-282-122A-44444	Sequence 44444, A	532	30	65.2	265	4	US-10-050-882-138	Sequence 138, App
460	31	67.4	882	5	US-10-732-923-7045	Sequence 7045, Ap	533	30	65.2	266	5	US-10-963-903-138	Sequence 138, App
461	31	67.4	924	4	US-10-425-115-35816	Sequence 358126,	534	30	65.2	274	5	US-10-888-805-24	Sequence 24, Appl
462	31	67.4	952	4	US-10-424-599-248111	Sequence 248111,	535	30	65.2	276	5	US-10-888-805-26	Sequence 26, Appl
463	31	67.4	964	5	US-10-933-206-39	Sequence 39, Appl	536	30	65.2	281	4	US-10-437-963-170119	Sequence 170319,
464	31	67.4	964	6	US-11-004-053-39	Sequence 39, Appl	537	30	65.2	281	4	US-10-424-599-192043	Sequence 192043,
465	31	67.4	964	6	US-11-007-643-39	Sequence 39, Appl	538	30	65.2	283	5	US-10-888-805-28	Sequence 28, Appl

539	30	65.2	283	5	US-10-888-805-30	Sequence 30, Appl	612	30	65.2	715	4	US-10-282-122A-67521	Sequence 67521, A
540	30	65.2	283	5	US-10-888-805-32	Sequence 32, Appl	613	30	65.2	719	4	US-10-425-114-70174	Sequence 70174, A
541	30	65.2	283	5	US-10-888-805-34	Sequence 34, Appl	614	30	65.2	768	4	US-10-437-963-13946	Sequence 13946, A
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543	30	65.2	298	4	US-10-628-088-390	Sequence 390, App	616	30	65.2	776	4	US-10-425-115-32963	Sequence 32963, A
544	30	65.2	298	4	US-10-842-032-8	Sequence 8, Appl	617	30	65.2	780	4	US-10-282-122A-60861	Sequence 60861, A
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546	30	65.2	336	3	US-10-389-566-1837	Sequence 1837, Ap	619	30	65.2	799	4	US-10-437-963-18692	Sequence 18692, A
547	30	65.2	336	5	US-10-732-923-17906	Sequence 17906, A	620	30	65.2	864	4	US-10-282-122A-58155	Sequence 58155, A
548	30	65.2	336	5	US-10-732-923-17913	Sequence 17913, A	621	30	65.2	896	4	US-10-205-342-27	Sequence 342-27
549	30	65.2	343	4	US-10-408-765A-2822	Sequence 2922, Ap	622	30	65.2	901	4	US-10-437-963-177073	Sequence 177073, A
550	30	65.2	347	4	US-10-732-923-4506	Sequence 4506, Ap	623	30	65.2	902	4	US-10-489-372-16	Sequence 372-16
551	30	65.2	347	5	US-10-732-923-4507	Sequence 4507, Ap	624	30	65.2	902	5	US-10-473-127-947	Sequence 127-947
552	30	65.2	347	5	US-10-732-923-4508	Sequence 4508, Ap	625	30	65.2	902	5	US-10-473-127-946	Sequence 127-946
553	30	65.2	347	6	US-11-097-143-10350	Sequence 10350, A	626	30	65.2	907	5	US-10-473-127-942	Sequence 127-942
554	30	65.2	352	3	US-09-783-320-48	Sequence 48, Appl	627	30	65.2	907	5	US-10-473-127-974	Sequence 127-974
555	30	65.2	357	4	US-10-282-122A-64960	Sequence 64960, A	628	30	65.2	907	5	US-10-473-127-974	Sequence 127-974
556	30	65.2	365	4	US-10-411-910A-81	Sequence 81, Appl	629	30	65.2	907	5	US-10-723-860-3754	Sequence 3754, Ap
557	30	65.2	366	4	US-10-425-114-52567	Sequence 52567, A	630	30	65.2	907	5	US-10-756-149-5653	Sequence 5653, Ap
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559	30	65.2	385	4	US-10-425-115-283067	Sequence 283067, A	632	30	65.2	956	5	US-10-933-206-40	Sequence 206-40
560	30	65.2	391	4	US-10-344-738-31	Sequence 31, Appl	633	30	65.2	956	6	US-10-1004-053-40	Sequence 11-004-053-40
561	30	65.2	394	4	US-10-450-763-38365	Sequence 38365, A	634	30	65.2	956	6	US-11-007-643-40	Sequence 11-007-643-40
562	30	65.2	399	4	US-10-291-172-751	Sequence 751, App	635	30	65.2	956	6	US-11-007-644-40	Sequence 11-007-644-40
563	30	65.2	399	4	US-10-221-278-751	Sequence 751, App	636	30	65.2	956	6	US-10-1007-669-40	Sequence 10-1007-669-40
564	30	65.2	403	4	US-10-437-963-119422	Sequence 119422, A	637	30	65.2	996	4	US-10-425-115-316580	Sequence 115-316580
565	30	65.2	428	4	US-10-425-115-315201	Sequence 315201, A	638	30	65.2	999	4	US-10-425-115-316582	Sequence 115-316582
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567	30	65.2	464	3	US-09-815-242-10647	Sequence 10647, A	640	30	65.2	1086	5	US-10-723-860-3170	Sequence 3170, Ap
568	30	65.2	464	4	US-10-882-122A-42561	Sequence 42561, A	641	30	65.2	1086	5	US-10-756-149-5574	Sequence 5574, Ap
569	30	65.2	467	3	US-09-815-242-4997	Sequence 4997, Ap	642	30	65.2	1335	4	US-10-238-079-941	Sequence 941, App
570	30	65.2	489	4	US-10-369-493-6415	Sequence 6415, Ap	643	30	65.2	1335	4	US-10-667-891-3	Sequence 3, Appl
571	30	65.2	503	4	US-10-092-900A-54	Sequence 54, Appl	644	30	65.2	1399	5	US-10-807-466-3	Sequence 3, Appl
572	30	65.2	503	5	US-10-450-763-46936	Sequence 46936, A	645	30	65.2	1566	4	US-10-437-963-127296	Sequence 127296, A
573	30	65.2	505	3	US-09-729-995-2	Sequence 2, Appl	646	30	65.2	1845	4	US-10-408-765A-1351	Sequence 1351, Ap
574	30	65.2	505	3	US-09-729-995-4	Sequence 4, Appl	647	30	65.2	2109	4	US-10-369-493-6346	Sequence 6346, Ap
575	30	65.2	505	4	US-10-135-689-2	Sequence 4, Appl	648	30	65.2	3332	4	US-10-282-122A-69849	Sequence 69849, A
576	30	65.2	505	4	US-10-135-689-4	Sequence 19, Appl	649	30	65.2	3635	3	US-09-845-583-2	Sequence 2, Appl
577	30	65.2	505	4	US-10-092-900A-56	Sequence 56, Appl	650	30	65.2	3635	4	US-10-037-182-4	Sequence 4, Appl
578	30	65.2	505	4	US-10-690-617-2	Sequence 2, Appl	651	30	65.2	3723	5	US-10-844-716-6	Sequence 4, Appl
579	30	65.2	505	4	US-10-690-617-4	Sequence 4, Appl	652	30	65.2	3723	5	US-09-980-217-29	Sequence 29, Appl
580	30	65.2	505	5	US-10-981-461-2	Sequence 2, Appl	653	30	65.2	5674	5	US-10-844-716-10	Sequence 10, Appl
581	30	65.2	505	5	US-10-981-461-4	Sequence 4, Appl	654	30	65.2	5674	5	US-10-819-386A-3	Sequence 3, Appl
582	30	65.2	505	5	US-10-981-678-2	Sequence 2, Appl	655	29	63.0	10675	5	US-10-946-647-68	Sequence 68, Appl
583	30	65.2	505	5	US-10-981-678-4	Sequence 4, Appl	656	29	63.0	22	5	US-10-946-647-68	Sequence 68, Appl
584	30	65.2	513	4	US-10-168-582-2	Sequence 2, Appl	657	29	63.0	41	4	US-10-425-115-294900	Sequence 294900, A
585	30	65.2	513	4	US-09-783-320-30	Sequence 30, Appl	658	29	63.0	64	4	US-10-437-963-150991	Sequence 150991, A
586	30	65.2	520	3	US-10-094-749-3093	Sequence 1093, Ap	659	29	63.0	64	4	US-09-764-891-5060	Sequence 5060, Ap
587	30	65.2	542	4	US-10-092-900A-58	Sequence 58, Appl	660	29	63.0	66	4	US-10-425-115-255995	Sequence 255995, A
588	30	65.2	542	4	US-10-128-714-3127	Sequence 3127, Ap	661	29	63.0	73	4	US-10-029-386-28937	Sequence 28937, A
589	30	65.2	542	4	US-10-282-122A-62265	Sequence 62265, A	662	29	63.0	73	4	US-09-764-853-492	Sequence 729, App
590	30	65.2	555	4	US-10-128-714-8127	Sequence 8127, Ap	663	29	63.0	87	3	US-09-764-853-729	Sequence 5933, Ap
591	30	65.2	555	4	US-09-783-320-38	Sequence 38, Appl	664	29	63.0	87	3	US-09-738-626-5933	Sequence 203411
592	30	65.2	560	3	US-09-922-138-8	Sequence 8, Appl	665	29	63.0	94	4	US-10-424-599-20411	Sequence 5388, Ap
593	30	65.2	561	3	US-09-922-138-8	Sequence 8, Appl	666	29	63.0	96	3	US-09-738-626-5388	Sequence 274867
594	30	65.2	561	4	US-10-391-364-42	Sequence 42, Appl	667	29	63.0	96	3	US-10-425-115-274887	Sequence 282721
595	30	65.2	563	4	US-10-282-122A-64030	Sequence 64030, A	668	29	63.0	99	4	US-10-425-115-283721	Sequence 187820
596	30	65.2	563	5	US-10-732-923-1947	Sequence 1947, Ap	669	29	63.0	100	4	US-10-437-963-1364540	Sequence 345440, A
597	30	65.2	566	6	US-10-097-143-25113	Sequence 25113, A	670	29	63.0	100	4	US-10-767-701-59670	Sequence 59670, A
598	30	65.2	576	3	US-10-311-034-16	Sequence 16, Appl	671	29	63.0	112	4	US-10-425-115-243527	Sequence 243527, A
599	30	65.2	576	3	US-09-994-288-5	Sequence 5, Appl	672	29	63.0	112	4	US-09-899-046-204	Sequence 204, App
600	30	65.2	576	3	US-10-437-963-119420	Sequence 46, Appl	673	29	63.0	113	3	US-09-899-046-204	Sequence 204, App
601	30	65.2	576	3	US-10-437-963-136258	Sequence 136258, A	674	29	63.0	113	3	US-09-873-324-204	Sequence 204, App
602	30	65.2	590	4	US-10-104-047-3605	Sequence 3605, Ap	675	29	63.0	113	3	US-09-873-324-204	Sequence 42942, A
603	30	65.2	618	4	US-10-450-763-42614	Sequence 42614, A	676	29	63.0	117	4	US-10-767-701-42942	Sequence 70, Appl
604	30	65.2	627	5	US-10-437-963-136258	Sequence 136258, A	677	29	63.0	118	3	US-09-905-243-70	Sequence 70, Appl
605	30	65.2	644	5	US-10-825-692-34	Sequence 34, Appl	678	29	63.0	118	3	US-11-099-331-70	Sequence 5078, Ap
606	30	65.2	647	5	US-10-825-692-34	Sequence 34, Appl	679	29	63.0	119	3	US-09-864-408A-5078	Sequence 168005
607	30	65.2	659	5	US-10-213-974-23	Sequence 23, Appl	680	29	63.0	121	4	US-10-437-963-168005	Sequence 228, App
608	30	65.2	673	4	US-10-282-122A-69824	Sequence 69824, A	681	29	63.0	123	3	US-09-801-9443-228	Sequence 69, Appl
609	30	65.2	684	4	US-10-282-122A-48915	Sequence 48915, A	682	29	63.0	128	3	US-09-905-243-69	Sequence 69, Appl
610	30	65.2	694	4	US-10-767-701-46291	Sequence 46291, A	683	29	63.0	128	3	US-11-099-331-69	Sequence 69, Appl
611	30	65.2	694	4	US-10-425-115-283071	Sequence 283071, A	684	29	63.0	128	6	US-11-099-331-69	Sequence 69, Appl

685	29	63.0	129	4	US-10-029-386-29544	Sequence 29544, A	758	29	63.0	411	4	US-10-369-493-18665	Sequence 18665, A
686	29	63.0	129	5	US-10-915-490-29	Sequence 29, Appl	759	29	63.0	411	5	US-10-732-923-19247	Sequence 19247, A
687	29	63.0	130	3	US-09-805-290A-19	Sequence 19, Appl	760	29	63.0	413	5	US-10-295-077-1308	Sequence 1308, Ap
688	29	63.0	130	3	US-09-805-290A-26	Sequence 26, Appl	761	29	63.0	413	5	US-10-783-528-87	Sequence 87, Appl
689	29	63.0	130	4	US-10-767-701-38548	Sequence 38548, A	762	29	63.0	422	4	US-10-289-757-59	Sequence 69, Appl
690	29	63.0	137	5	US-10-450-763-56698	Sequence 56698, A	763	29	63.0	422	5	US-10-955-745-69	Sequence 69, Appl
691	29	63.0	147	4	US-10-767-701-43888	Sequence 43888, A	764	29	63.0	423	5	US-10-484-148-8	Sequence 1, Appl
692	29	63.0	153	3	US-09-764-868-887	Sequence 887, App	765	29	63.0	424	4	US-10-044-442-8	Sequence 8, Appl
693	29	63.0	167	5	US-10-450-763-36855	Sequence 36855, A	766	29	63.0	425	3	US-09-930-317-2	Sequence 2, Appl
694	29	63.0	168	4	US-10-425-115-362505	Sequence 362505, A	767	29	63.0	425	3	US-09-923-922-8	Sequence 8, Appl
695	29	63.0	169	4	US-10-425-114-44892	Sequence 44892, A	768	29	63.0	425	3	US-09-601-534-5	Sequence 5, Appl
696	29	63.0	172	4	US-10-029-386-32917	Sequence 32917, A	769	29	63.0	425	4	US-10-156-761-13421	Sequence 13421, A
697	29	63.0	174	6	US-11-008-354-10	Sequence 10, Appl	770	29	63.0	425	4	US-10-299-886-2	Sequence 2, Appl
698	29	63.0	174	6	US-11-107-597-10	Sequence 10, Appl	771	29	63.0	425	4	US-10-308-229-46	Sequence 46, Appl
699	29	63.0	184	5	US-10-644-765-265	Sequence 265, App	772	29	63.0	425	4	US-10-390-553-8	Sequence 8, Appl
700	29	63.0	185	4	US-10-425-115-202657	Sequence 202657, A	773	29	63.0	425	4	US-10-648-553-198	Sequence 198, App
701	29	63.0	197	4	US-10-425-115-363076	Sequence 363076, A	774	29	63.0	431	5	US-10-732-923-3324	Sequence 3324, Ap
702	29	63.0	199	5	US-10-644-765-188	Sequence 188, App	775	29	63.0	432	4	US-10-108-260A-3309	Sequence 3309, Ap
703	29	63.0	212	5	US-10-732-923-21556	Sequence 21556, A	776	29	63.0	432	6	US-11-097-143-6141	Sequence 6141, Ap
704	29	63.0	215	6	US-11-013-314-14	Sequence 14, Appl	777	29	63.0	438	4	US-10-267-502-419	Sequence 419, App
705	29	63.0	215	6	US-11-097-143-27639	Sequence 27639, A	778	29	63.0	438	6	US-11-097-143-12366	Sequence 12366, A
706	29	63.0	215	6	US-11-097-143-27642	Sequence 27642, A	779	29	63.0	438	6	US-11-097-143-28833	Sequence 28833, A
707	29	63.0	215	6	US-11-097-143-37719	Sequence 37719, A	780	29	63.0	442	5	US-10-501-282-5308	Sequence 6308, Ap
708	29	63.0	223	4	US-10-424-599-189178	Sequence 189178, A	781	29	63.0	447	4	US-10-767-701-45219	Sequence 45219, A
709	29	63.0	224	4	US-10-767-701-36229	Sequence 36229, A	782	29	63.0	450	4	US-10-767-701-43724	Sequence 43724, A
710	29	63.0	225	4	US-10-424-599-194013	Sequence 194013, A	783	29	63.0	451	5	US-10-866-089-8	Sequence 8, Appl
711	29	63.0	226	4	US-10-437-963-18186	Sequence 18186, A	784	29	63.0	451	5	US-10-501-282-6310	Sequence 6310, Ap
712	29	63.0	230	4	US-10-767-701-35463	Sequence 35463, A	785	29	63.0	453	5	US-10-501-282-63312	Sequence 6312, Ap
713	29	63.0	235	4	US-10-369-493-5138	Sequence 5138, Ap	786	29	63.0	467	3	US-09-923-922-7	Sequence 7, Appl
714	29	63.0	238	4	US-10-425-114-53749	Sequence 53749, A	787	29	63.0	467	3	US-09-601-534-4	Sequence 4, Appl
715	29	63.0	239	4	US-10-389-647-594	Sequence 594, App	788	29	63.0	467	4	US-10-095-492-15	Sequence 15, Appl
716	29	63.0	246	4	US-10-369-493-10772	Sequence 10772, A	789	29	63.0	467	4	US-10-119-089-2	Sequence 2, Appl
717	29	63.0	253	4	US-10-282-122A-74595	Sequence 74595, A	790	29	63.0	467	4	US-10-119-099-15	Sequence 15, Appl
718	29	63.0	264	4	US-10-784-880-54	Sequence 54, Appl	791	29	63.0	467	4	US-10-044-442-2	Sequence 2, Appl
719	29	63.0	267	4	US-10-425-114-66579	Sequence 66579, A	792	29	63.0	467	4	US-10-044-442-5	Sequence 5, Appl
720	29	63.0	270	4	US-10-425-115-202889	Sequence 202889, A	793	29	63.0	467	4	US-10-282-122A-50781	Sequence 50781, A
721	29	63.0	270	4	US-10-289-762-8920	Sequence 820, App	794	29	63.0	467	4	US-10-390-553-7	Sequence 7, Appl
722	29	63.0	280	4	US-10-425-114-53205	Sequence 53205, A	795	29	63.0	469	4	US-10-425-114-57769	Sequence 57769, A
723	29	63.0	284	4	US-10-156-761-10299	Sequence 10299, A	796	29	63.0	475	6	US-10-424-599-669103	Sequence 269103, A
724	29	63.0	294	6	US-09-738-626-3973	Sequence 3973, Ap	797	29	63.0	475	6	US-11-007-819-20	Sequence 20, Appl
725	29	63.0	294	6	US-11-006-098-290	Sequence 290, App	798	29	63.0	478	4	US-10-282-122A-78456	Sequence 78456, A
726	29	63.0	295	4	US-10-425-115-191488	Sequence 191488, A	799	29	63.0	484	4	US-10-282-122A-48102	Sequence 48102, A
727	29	63.0	305	4	US-10-425-114-42456	Sequence 42456, A	800	29	63.0	484	5	US-10-732-923-19732	Sequence 19732, A
728	29	63.0	306	4	US-10-282-122A-43708	Sequence 43708, A	801	29	63.0	499	4	US-10-437-963-145651	Sequence 145651, A
729	29	63.0	310	6	US-11-007-819-39	Sequence 39, Appl	802	29	63.0	509	4	US-10-437-963-110395	Sequence 110395, A
730	29	63.0	316	4	US-10-282-122A-73778	Sequence 73778, A	803	29	63.0	511	4	US-10-282-122A-59509	Sequence 59509, A
731	29	63.0	320	4	US-10-425-115-274892	Sequence 274892, A	804	29	63.0	512	5	US-10-732-923-19731	Sequence 19731, A
732	29	63.0	322	3	US-09-738-626-6911	Sequence 6911, Ap	805	29	63.0	525	4	US-10-378-029-58	Sequence 58, Appl
733	29	63.0	334	5	US-10-723-860-3174	Sequence 3174, Ap	806	29	63.0	525	4	US-10-788-792-220	Sequence 220, App
734	29	63.0	339	4	US-10-029-386-32179	Sequence 32179, A	807	29	63.0	535	4	US-10-087-192-2007	Sequence 2007, App
735	29	63.0	340	4	US-10-369-493-20437	Sequence 20437, A	808	29	63.0	536	4	US-10-369-493-40852	Sequence 40852, A
736	29	63.0	341	4	US-10-425-115-202891	Sequence 202891, A	809	29	63.0	536	4	US-10-437-963-162720	Sequence 162720, A
737	29	63.0	343	6	US-10-282-122A-50031	Sequence 50031, A	810	29	63.0	537	5	US-10-732-923-13773	Sequence 13773, A
738	29	63.0	346	6	US-11-008-354-8	Sequence 8, Appl	811	29	63.0	538	5	US-10-732-923-13773	Sequence 13773, A
739	29	63.0	346	6	US-11-107-597-8	Sequence 8, Appl	812	29	63.0	542	5	US-10-732-923-13745	Sequence 13745, A
740	29	63.0	349	4	US-10-282-122A-49298	Sequence 49298, A	813	29	63.0	548	4	US-10-282-122A-44425	Sequence 44425, A
741	29	63.0	352	5	US-10-989-891-116	Sequence 116, App	814	29	63.0	569	4	US-10-156-761-12273	Sequence 12273, A
742	29	63.0	368	4	US-10-369-493-17473	Sequence 17473, A	815	29	63.0	572	4	US-10-425-114-59378	Sequence 59378, A
743	29	63.0	368	5	US-10-732-923-11847	Sequence 11847, A	816	29	63.0	587	3	US-09-815-242-109060	Sequence 109060, A
744	29	63.0	375	4	US-10-424-599-234587	Sequence 234587, A	817	29	63.0	587	4	US-10-260-877-26	Sequence 26, Appl
745	29	63.0	382	4	US-10-369-493-13640	Sequence 13640, A	818	29	63.0	587	4	US-10-282-122A-58063	Sequence 58063, A
746	29	63.0	386	4	US-10-012-697-1539	Sequence 1539, Ap	819	29	63.0	588	4	US-10-369-493-17841	Sequence 17841, A
747	29	63.0	386	5	US-10-779-543-23539	Sequence 23539, A	820	29	63.0	601	4	US-10-369-493-10849	Sequence 10849, A
748	29	63.0	387	4	US-10-114-893-1133	Sequence 1133, App	821	29	63.0	609	5	US-10-450-763-56333	Sequence 56333, A
749	29	63.0	387	4	US-10-016-249-2	Sequence 2, Appl	822	29	63.0	620	4	US-10-104-047-2045	Sequence 2045, Ap
750	29	63.0	389	4	US-10-369-493-4934	Sequence 4934, Ap	823	29	63.0	623	5	US-10-732-923-7091	Sequence 7091, Ap
751	29	63.0	389	4	US-10-369-493-7692	Sequence 7692, Ap	824	29	63.0	631	4	US-10-295-027-1307	Sequence 1307, Ap
752	29	63.0	395	5	US-10-450-763-38031	Sequence 38031, A	825	29	63.0	631	5	US-10-783-528-86	Sequence 86, Appl
753	29	63.0	395	5	US-10-450-763-49109	Sequence 49109, A	826	29	63.0	642	5	US-10-617-320-4944	Sequence 4944, Ap
754	29	63.0	401	4	US-10-195-144-27	Sequence 27, Appl	827	29	63.0	652	4	US-10-156-761-12133	Sequence 12133, A
755	29	63.0	401	4	US-10-345-072-27	Sequence 27, Appl	828	29	63.0	655	4	US-10-369-493-3656	Sequence 3656, Ap
756	29	63.0	407	4	US-10-238-075-725	Sequence 725, App	829	29	63.0	657	4	US-10-437-963-137298	Sequence 137298, A
757	29	63.0	410	4	US-10-238-075-1226	Sequence 1226, Ap	830	29	63.0	661	5	US-10-450-763-60620	Sequence 60620, A

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832	29	63.0	663	5	US-10-946-647-1369	Sequence 1369, Ap	905	29	63.0	1739	4	US-10-154-086-19	Sequence 18107, A
833	29	63.0	663	5	US-10-946-647-1385	Sequence 1385, Ap	906	29	63.0	1842	6	US-10-732-923-18307	Sequence 37056, A
834	29	63.0	663	5	US-10-946-647-1392	Sequence 1392, Ap	907	29	63.0	1895	6	US-11-097-143-37056	Sequence 2, Appl
835	29	63.0	663	5	US-10-946-647-1398	Sequence 1398, Ap	908	29	63.0	1924	3	US-09-866-557A-2	Sequence 2, Appl
836	29	63.0	668	5	US-09-812-350-24	Sequence 24, Appl	909	29	63.0	1924	3	US-09-858-862-2	Sequence 2, Appl
837	29	63.0	668	5	US-10-732-923-6844	Sequence 6844, Ap	910	29	63.0	1924	4	US-10-055-797-2	Sequence 2, Appl
838	29	63.0	682	5	US-10-238-075-1077	Sequence 1077, Ap	911	29	63.0	1924	4	US-10-350-799-2	Sequence 5660, Ap
839	29	63.0	682	5	US-10-946-647-1418	Sequence 1418, Ap	912	29	63.0	2163	4	US-10-369-493-5660	Sequence 2075, Ap
840	29	63.0	685	4	US-10-731-741-22	Sequence 22, Appl	913	29	63.0	2511	5	US-10-408-765A-2075	Sequence 20568, A
841	29	63.0	686	4	US-10-417-719-25	Sequence 25, Appl	914	29	63.0	2808	4	US-10-732-923-20568	Sequence 50, Appl
842	29	63.0	686	4	US-10-417-719-40	Sequence 40, Appl	915	29	63.0	2808	4	US-10-210-281-50	Sequence 3046, Ap
843	29	63.0	686	4	US-10-417-719-42	Sequence 42, Appl	916	29	63.0	2808	4	US-10-723-860-3046	Sequence 273, App
844	29	63.0	686	4	US-10-417-719-44	Sequence 44, Appl	917	29	63.0	4292	5	US-10-080-334-273	Sequence 47419, A
845	29	63.0	686	4	US-10-417-719-46	Sequence 46, Appl	918	29	63.0	4292	5	US-10-450-763-47419	Sequence 90, Appl
846	29	63.0	686	4	US-10-731-741-7	Sequence 7, Appl	919	29	63.0	4292	5	US-10-080-334-90	Sequence 271, App
847	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	920	29	63.0	4292	4	US-10-080-334-272	Sequence 272, App
848	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	921	29	63.0	4292	4	US-10-080-334-272	Sequence 171, App
849	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	922	29	63.0	4292	4	US-10-080-334-272	Sequence 2, Appl
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851	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	924	29	63.0	4292	4	US-10-080-334-272	Sequence 2568, Ap
852	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	925	29	63.0	4292	4	US-10-080-334-272	Sequence 8219, Ap
853	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	926	29	63.0	4292	4	US-10-080-334-272	Sequence 23, Appl
854	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	927	29	63.0	4292	4	US-10-080-334-272	Sequence 4098, Ap
855	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	928	29	63.0	4292	4	US-10-080-334-272	Sequence 20557, A
856	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	929	29	63.0	4292	4	US-10-080-334-272	Sequence 247, App
857	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	930	29	63.0	4292	4	US-10-080-334-272	Sequence 61, Appl
858	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	931	29	63.0	4292	4	US-10-080-334-272	Sequence 250, App
859	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	932	29	63.0	4292	4	US-10-080-334-272	Sequence 251, App
860	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	933	29	63.0	4292	4	US-10-080-334-272	Sequence 34725, A
861	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	934	29	63.0	4292	4	US-10-080-334-272	Sequence 31921, A
862	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	935	29	63.0	4292	4	US-10-080-334-272	Sequence 45552, A
863	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	936	29	63.0	4292	4	US-10-080-334-272	Sequence 260609, A
864	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	937	29	63.0	4292	4	US-10-080-334-272	Sequence 409, App
865	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	938	29	63.0	4292	4	US-10-080-334-272	Sequence 115739, A
866	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	939	29	63.0	4292	4	US-10-080-334-272	Sequence 257896, A
867	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	940	29	63.0	4292	4	US-10-080-334-272	Sequence 246, App
868	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	941	29	63.0	4292	4	US-10-080-334-272	Sequence 153, App
869	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	942	29	63.0	4292	4	US-10-080-334-272	Sequence 165, App
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871	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	944	29	63.0	4292	4	US-10-080-334-272	Sequence 284468, A
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873	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	946	29	63.0	4292	4	US-10-080-334-272	Sequence 290949, A
874	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	947	29	63.0	4292	4	US-10-080-334-272	Sequence 241161, A
875	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	948	29	63.0	4292	4	US-10-080-334-272	Sequence 302894, A
876	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	949	29	63.0	4292	4	US-10-080-334-272	Sequence 362457, A
877	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	950	29	63.0	4292	4	US-10-080-334-272	Sequence 300139, A
878	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	951	29	63.0	4292	4	US-10-080-334-272	Sequence 335, App
879	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	952	29	63.0	4292	4	US-10-080-334-272	Sequence 335, App
880	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	953	29	63.0	4292	4	US-10-080-334-272	Sequence 335, App
881	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	954	29	63.0	4292	4	US-10-080-334-272	Sequence 284156, A
882	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	955	29	63.0	4292	4	US-10-080-334-272	Sequence 78067, A
883	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	956	29	63.0	4292	4	US-10-080-334-272	Sequence 190053, A
884	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	957	29	63.0	4292	4	US-10-080-334-272	Sequence 3, Appl
885	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	958	29	63.0	4292	4	US-10-080-334-272	Sequence 21113, A
886	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	959	29	63.0	4292	4	US-10-080-334-272	Sequence 45068, A
887	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	960	29	63.0	4292	4	US-10-080-334-272	Sequence 26, Appl
888	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	961	29	63.0	4292	4	US-10-080-334-272	Sequence 110452, A
889	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	962	29	63.0	4292	4	US-10-080-334-272	Sequence 24, Appl
890	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	963	29	63.0	4292	4	US-10-080-334-272	Sequence 158, App
891	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	964	29	63.0	4292	4	US-10-080-334-272	Sequence 150, App
892	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	965	29	63.0	4292	4	US-10-080-334-272	Sequence 160, App
893	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	966	29	63.0	4292	4	US-10-080-334-272	Sequence 194, App
894	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	967	29	63.0	4292	4	US-10-080-334-272	Sequence 195, App
895	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	968	29	63.0	4292	4	US-10-080-334-272	Sequence 195, App
896	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	969	29	63.0	4292	4	US-10-080-334-272	Sequence 195, App
897	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	970	29	63.0	4292	4	US-10-080-334-272	Sequence 195, App
898	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	971	29	63.0	4292	4	US-10-080-334-272	Sequence 195, App
899	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	972	29	63.0	4292	4	US-10-080-334-272	Sequence 195, App
900	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	973	29	63.0	4292	4	US-10-080-334-272	Sequence 195, App
901	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	974	29	63.0	4292	4	US-10-080-334-272	Sequence 195, App
902	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	975	29	63.0	4292	4	US-10-080-334-272	Sequence 195, App
903	29	63.0	686	4	US-10-437-963-144927	Sequence 144927, A	976	29	63.0	4292	4	US-10-080-334-272	Sequence 195, App

977 28 60.9 89 5 US-10-732-180-196 Sequence 196, App
978 28 60.9 91 4 US-10-423-115-257319 Sequence 257319,
979 28 60.9 92 5 US-10-732-180-209 Sequence 209, App
980 28 60.9 94 4 US-10-424-599-173252 Sequence 173252,
981 28 60.9 95 4 US-10-424-599-247325 Sequence 247325,
982 28 60.9 96 4 US-10-316-194-16 Sequence 16, Appl
983 28 60.9 96 4 US-10-425-115-292667 Sequence 292667,
984 28 60.9 97 4 US-10-732-180-16 Sequence 16, Appl
985 28 60.9 97 4 US-10-016-516-2 Sequence 16, Appl
986 28 60.9 97 4 US-10-424-599-145627 Sequence 145627,
987 28 60.9 97 4 US-10-425-115-228578 Sequence 228578,
988 28 60.9 98 4 US-10-425-115-297957 Sequence 297957,
989 28 60.9 101 4 US-10-106-698-5572 Sequence 5572, Ap
990 28 60.9 102 4 US-10-674-755-18 Sequence 18, Appl
991 28 60.9 102 4 US-10-425-115-235049 Sequence 235049,
992 28 60.9 104 4 US-10-156-761-10345 Sequence 10345, A
993 28 60.9 105 4 US-10-424-599-209225 Sequence 209225,
994 28 60.9 105 4 US-10-450-763-31312 Sequence 31312, A
995 28 60.9 106 3 US-09-864-761-45807 Sequence 45907, A
996 28 60.9 107 4 US-10-424-599-240363 Sequence 240363,
997 28 60.9 108 4 US-10-425-115-206428 Sequence 206428,
998 28 60.9 108 4 US-10-767-701-38377 Sequence 38377, A
999 28 60.9 108 5 US-10-732-180-208 Sequence 208, Appl
1000 28 60.9 111 4 US-10-316-194-15 Sequence 15, Appl

ALIGNMENTS

RESULT 1
US-10-128-711-71
Sequence 71, Application US/10128711
Publication No. US2003009634A1
GENERAL INFORMATION:
APPLICANT: VITIELLO, Maria A.
CHESTNUT, Robert W.
CELIUS, Eteban
GRAY, Howard
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ELICITING
CTL IMMUNITY
NUMBER OF SEQUENCES: 153
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend Knourie and Crew
STREET: Stewart Street Tower, One Market Plaza
CITY: San Francisco
STATE: California
COUNTRY: US
ZIP: 94105-1493
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/128, 711
FILING DATE: 22-Apr-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/197,484
FILING DATE: 16-FEB-1994
APPLICATION NUMBER: US 07/935,811
FILING DATE: 26-AUG-1992
APPLICATION NUMBER: US 07/874,491
FILING DATE: 27-APR-1992
APPLICATION NUMBER: US 07/827,682
FILING DATE: 29-JAN-1992
APPLICATION NUMBER: US 07/749,568
FILING DATE: 26-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: Parmelee, Steven W.
REGISTRATION NUMBER: 31,990
REFERENCE/DOCKET NUMBER: 14137-26-4

TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 467-9600
TELEFAX: (206) 623-6793
INFORMATION FOR SEQ ID NO: 71:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 71:
US-10-128-711-71

Query Match 100.0%; Score 46; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLOPETT 9
Db 1 MLDLOPETT 9

RESULT 2
US-10-777-053-328
Sequence 328, Application US/10777053
Publication No. US20040132088A1
GENERAL INFORMATION:
APPLICANT: Simard, John J. L.
APPLICANT: Diamond, David C.
APPLICANT: Qiu, Zhiyong
APPLICANT: Lei, Xiang-Dong
TITLE OF INVENTION: EXPRESSION VECTORS ENCODING EPITOPES OF
FILE REFERENCE: TARGET-ASSOCIATED ANTIGENS AND METHODS FOR THEIR DESIGN
CURRENT APPLICATION NUMBER: US/10/777,053
CURRENT FILING DATE: 2004-02-10
PRIOR FILING DATE: 2002-11-07
PRIOR APPLICATION NUMBER: 10/292,413
PRIOR FILING DATE: 2004-02-10
PRIOR APPLICATION NUMBER: 60/336,968
NUMBER OF SEQ ID NOS: 979
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 328
LENGTH: 9
TYPE: PRT
ORGANISM: Human Papillomavirus 16
US-10-777-053-328

Query Match 100.0%; Score 46; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLOPETT 9
Db 1 MLDLOPETT 9

RESULT 3
US-10-777-053-496
Sequence 496, Application US/10777053
Publication No. US20040132088A1
GENERAL INFORMATION:
APPLICANT: Simard, John J. L.
APPLICANT: Diamond, David C.
APPLICANT: Qiu, Zhiyong
APPLICANT: Lei, Xiang-Dong
TITLE OF INVENTION: EXPRESSION VECTORS ENCODING EPITOPES OF
FILE REFERENCE: TARGET-ASSOCIATED ANTIGENS AND METHODS FOR THEIR DESIGN
CURRENT APPLICATION NUMBER: US/10/777,053
CURRENT FILING DATE: 2004-02-10
PRIOR APPLICATION NUMBER: 10/292,413
PRIOR FILING DATE: 2002-11-07

```

; PRIOR APPLICATION NUMBER: 60/336,968
; PRIOR FILING DATE: 2001-11-07
; NUMBER OF SEQ ID NOS: 979
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 496
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-10-777-053-496
```

```
Query Match          100.0%; Score 46; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy      1 MLDLOPETT 9
Db      1 MLDLOPETT 9
```

```

RESULT 4
US-10-777-053-913
; Sequence 913, Application US/10777053
; Publication No. US20040132088A1
; GENERAL INFORMATION:
; APPLICANT: Simard, John J. L.
; APPLICANT: Diamond, David C.
; APPLICANT: Qiu, Zhiyong
; APPLICANT: Lei, Xiang-Dong
; TITLE OF INVENTION: EXPRESSION VECTORS ENCODING EPITOPES OF
; FILE REFERENCE: MANNK.022C1
; CURRENT APPLICATION NUMBER: US/10/777,053
; PRIOR FILING DATE: 2004-02-10
; PRIOR APPLICATION NUMBER: 10/292,413
; PRIOR FILING DATE: 2002-11-07
; PRIOR APPLICATION NUMBER: 60/336,968
; PRIOR FILING DATE: 2001-11-07
; NUMBER OF SEQ ID NOS: 979
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 913
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-777-053-913
```

```
Query Match          100.0%; Score 46; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
Qy      1 MLDLOPETT 9
Db      1 MLDLOPETT 9
```

```

RESULT 5
US-10-837-217-328
; Sequence 328, Application US/10837217
; Publication No. US20040203051A1
; GENERAL INFORMATION:
; APPLICANT: Simard, John J. L.
; APPLICANT: Diamond, David C.
; APPLICANT: Qiu, Zhiyong
; APPLICANT: Lei, Xiang-Dong
; TITLE OF INVENTION: EXPRESSION VECTORS ENCODING EPITOPES OF
; FILE REFERENCE: MANNK.022C2
; CURRENT APPLICATION NUMBER: US/10/837,217
; PRIOR FILING DATE: 2004-04-30
; PRIOR APPLICATION NUMBER: 10/292,413
; PRIOR FILING DATE: 2002-11-07
; PRIOR APPLICATION NUMBER: 60/336,968
; PRIOR FILING DATE: 2001-11-07
; NUMBER OF SEQ ID NOS: 979
```

```

; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 328
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papillomavirus 16
US-10-837-217-328
```

```
Query Match          100.0%; Score 46; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 MLDLOPETT 9
Db      1 MLDLOPETT 9
```

```

RESULT 6
US-10-837-217-496
; Sequence 496, Application US/10837217
; Publication No. US20040203051A1
; GENERAL INFORMATION:
; APPLICANT: Simard, John J. L.
; APPLICANT: Diamond, David C.
; APPLICANT: Qiu, Zhiyong
; APPLICANT: Lei, Xiang-Dong
; TITLE OF INVENTION: EXPRESSION VECTORS ENCODING EPITOPES OF
; FILE REFERENCE: MANNK.022C2
; CURRENT APPLICATION NUMBER: US/10/837,217
; PRIOR FILING DATE: 2004-04-30
; PRIOR APPLICATION NUMBER: 10/292,413
; PRIOR FILING DATE: 2002-11-07
; PRIOR APPLICATION NUMBER: 60/336,968
; PRIOR FILING DATE: 2001-11-07
; NUMBER OF SEQ ID NOS: 979
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 496
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-10-837-217-496
```

```
Query Match          100.0%; Score 46; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 MLDLOPETT 9
Db      1 MLDLOPETT 9
```

```

RESULT 7
US-10-837-217-913
; Sequence 913, Application US/10837217
; Publication No. US20040203051A1
; GENERAL INFORMATION:
; APPLICANT: Simard, John J. L.
; APPLICANT: Diamond, David C.
; APPLICANT: Qiu, Zhiyong
; APPLICANT: Lei, Xiang-Dong
; TITLE OF INVENTION: EXPRESSION VECTORS ENCODING EPITOPES OF
; FILE REFERENCE: MANNK.022C2
; CURRENT APPLICATION NUMBER: US/10/837,217
; PRIOR FILING DATE: 2004-04-30
; PRIOR APPLICATION NUMBER: 10/292,413
; PRIOR FILING DATE: 2002-11-07
; PRIOR APPLICATION NUMBER: 60/336,968
; PRIOR FILING DATE: 2001-11-07
; NUMBER OF SEQ ID NOS: 979
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 913
; LENGTH: 9
```

TYPE: PRT
ORGANISM: Homo Sapien
US-10-837-217-913

Query Match 100.0%; Score 46; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MLDLPETT 9
Db 1 MLDLPETT 9

RESULT 8
US-10-484-063-12
Sequence 12, Application US/10484063
Publication No. US20050048467A1
GENERAL INFORMATION:

APPLICANT: SASTRY, K. JAGANNADHA
APPLICANT: TORTOLERO-LUNA, GUILTERMO

APPLICANT: FOLLEN, MICHELE

TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN

FILE REFERENCE: UTSC:560US

CURRENT APPLICATION NUMBER: US/10/484,063

PRIOR FILING DATE: 2004-01-16

PRIOR APPLICATION NUMBER: PCT/US02/23198

PRIOR FILING DATE: 2002-07-19

PRIOR APPLICATION NUMBER: 60/306,809

PRIOR FILING DATE: 2001-07-20

NUMBER OF SEQ ID NOS: 27

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 12

LENGTH: 9

TYPE: PRT

ORGANISM: Human papillomavirus

US-10-484-063-12

Query Match 100.0%; Score 46; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MLDLPETT 9
Db 1 MLDLPETT 9

RESULT 9
US-10-751-845-101
Sequence 101, Application US/10751845

Publication No. US20050100928A1

GENERAL INFORMATION:

APPLICANT: Hedley, Mary Lynne

APPLICANT: Urban, Robert G.

APPLICANT: Chicic, Roman M.

TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES

FILE REFERENCE: 08191-013001

CURRENT APPLICATION NUMBER: US/10/751,845

PRIOR FILING DATE: 2004-01-05

PRIOR APPLICATION NUMBER: US/09/664,225

PRIOR FILING DATE: 2000-08-18

PRIOR APPLICATION NUMBER: US 60/169,846

PRIOR FILING DATE: 1999-12-09

PRIOR APPLICATION NUMBER: US 60/154,665

PRIOR FILING DATE: 1999-09-16

NUMBER OF SEQ ID NOS: 163

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 101

LENGTH: 9

TYPE: PRT

ORGANISM: Human Papilloma virus

US-10-751-845-101

Query Match 100.0%; Score 46; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MLDLPETT 9
Db 1 MLDLPETT 9

RESULT 10
US-10-924-377-7
Sequence 7, Application US/10924377

Publication No. US20050181458A1

GENERAL INFORMATION:

APPLICANT: Harding, Fiona

APPLICANT: Mucha, Jeannette Marie

TITLE OF INVENTION: HPV CD8+ T-Cell Epitopes

FILE REFERENCE: GCA11-2US

CURRENT APPLICATION NUMBER: US/10/924,377

PRIOR FILING DATE: 2004-08-23

PRIOR APPLICATION NUMBER: US 60/500,452

PRIOR FILING DATE: 2003-09-05

NUMBER OF SEQ ID NOS: 25

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 7

LENGTH: 9

TYPE: PRT

ORGANISM: human papillomavirus

US-10-924-377-7

Query Match 100.0%; Score 46; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MLDLPETT 9
Db 1 MLDLPETT 9

RESULT 11
US-09-847-185-19
Sequence 19, Application US/09847185

Patent No. US20020076392A1

GENERAL INFORMATION:

APPLICANT: Soo Hoo, William

TITLE OF INVENTION: MEMBRANE-BOUND CYTOKINE COMPOSITIONS

COMPRISING GM-CSF AND METHODS OF MODULATING AN IMMUNE

RESPONSE USING SAME

NUMBER OF SEQUENCES: 50

CORRESPONDENCE ADDRESS:

ADDRESSEE: CAMPBELL & FLORES, LLP

STREET: 4370 La Jolla Village Drive, Suite 700

CITY: San Diego

STATE: California

COUNTRY: United States

ZIP: 92121

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/847,185

FILING DATE: 01-May-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/201,931

FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: Campbell, Cathryn A.

REGISTRATION NUMBER: 31,815

REFERENCE/DOCKET NUMBER: P-IM 2442

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619)535-9001
TELEFAX: (619)535-8949
INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 19:
US-09-847-185-19

Query Match 100.0%; Score 46; DB 3; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MDLQPEPT 9
|||||
DB 2 MDLQPEPT 10

RESULT 12
US-09-835-853-22
Sequence 22, Application US/09835853
Patent No. US20020165136A1
GENERAL INFORMATION:
APPLICANT: BASERGA, Renato L.
APPLICANT: RESNICOFF, Mariana
APPLICANT: HUANG, Zhiwei
TITLE OF INVENTION: MHC PEPTIDES AND METHODS OF USE
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: HALE and DORR LLP
STREET: 1455 Pennsylvania Avenue, N.W.
City: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/835,853
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/704,344
FILING DATE: 28-AUG-1996
ATTORNEY/AGENT INFORMATION:
NAME: MIXON, Henry N.
REGISTRATION NUMBER: 32,073
REFERENCE/DOCKET NUMBER: 104322.196
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 942-8459
TELEFAX: (202) 942-8484
INFORMATION FOR SEQ ID NO: 22:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-09-835-853-22

Query Match 100.0%; Score 46; DB 3; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MDLQPEPT 9
|||||

DB 2 MDLQPEPT 10

RESULT 13
US-09-739-466C-13
Sequence 13, Application US/09739466C
Publication No. US20050107585A1
GENERAL INFORMATION:
APPLICANT: MURRAY, JOSEPH S
APPLICANT: SIHAHAN, TERUNA J
APPLICANT: HU, YONGBO
TITLE OF INVENTION: SIGNAL-1/SIGNAL-2 BIFUNCTIONAL PEPTIDE INHIBITORS
FILE REFERENCE: 23902-08805
CURRENT APPLICATION NUMBER: US/09/739,466C
CURRENT FILING DATE: 2000-12-18
NUMBER OF SEQ ID NOS: 46
SOFTWARE: Patentin Ver. 3.2
SEQ ID NO: 13
LENGTH: 10
TYPE: PRT
ORGANISM: Human papillomavirus
US-09-739-466C-13

Query Match 100.0%; Score 46; DB 3; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MDLQPEPT 9
|||||
DB 2 MDLQPEPT 10

RESULT 14
US-10-133-210-271
Sequence 271, Application US/10133210
Publication No. US20030103964A1
GENERAL INFORMATION:
APPLICANT: Delisi, Charles
APPLICANT: Berzofsky, Jay
APPLICANT: Gulukota, Kamalakara
APPLICANT: Vaccaro, Dennis
APPLICANT: Weng, Zhiping
APPLICANT: Zhang, Chao
TITLE OF INVENTION: METHODS FOR DESIGNING MOLECULAR CONJUGATES AND
FILE REFERENCE: BU-035AX
CURRENT APPLICATION NUMBER: US/10/133,210
CURRENT FILING DATE: 2002-04-26
NUMBER OF SEQ ID NOS: 281
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 271
LENGTH: 10
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-133-210-271

Query Match 100.0%; Score 46; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MDLQPEPT 9
|||||
DB 2 MDLQPEPT 10

RESULT 15
US-10-224-286-19
Sequence 19, Application US/10224286
Publication No. US20030108517A1
GENERAL INFORMATION:
APPLICANT: Soo Hoo, William

```

; TITLE OF INVENTION: MEMBRANE-BOUND CYTOKINE COMPOSITIONS
; COMPRISING GM-CSF AND METHODS OF MODULATING AN IMMUNE
; RESPONSE USING SAME
;
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CAMPBELL & FLORES, LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: United States
; ZIP: 92121
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/224,286
; FILING DATE: 19-Aug-2002
; CLASSIFICATION: <Unknown>
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/902,516
; FILING DATE: 29-JUL-1997
;
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-1M 2442
;
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619)535-9001
; TELEFAX: (619)535-8949
;
; INFORMATION FOR SEQ ID NO: 19:
;
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
;
; SEQUENCE DESCRIPTION: SEQ ID NO: 19:
US-10-224-286-19

Query Match          100.0%; Score 46; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 MLDLQPEPT 9
        |||||
        2 MLDLQPEPT 10

RESULT 16
US-10-177-390-33
; Sequence 33, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
; APPLICANT: Schuler, Gerold
; APPLICANT: N.V. Antwerp Immovatiecentrum
; TITLE OF INVENTION: Improved transfection of Eucaryotic Cells with Linear
; FILE OF INVENTION: Polynucleotides by Electroporation
; FILE REFERENCE: 021505wo/JH/ml
; CURRENT APPLICATION NUMBER: US/10/117,390
; CURRENT FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 33
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Influenza virus
US-10-177-390-33

Query Match          100.0%; Score 46; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 MLDLQPEPT 9
```

```

DB      2 MLDLQPEPT 10
        |||||
        2 MLDLQPEPT 10

RESULT 17
US-10-406-317-30
; Sequence 30, Application US/10406317
; Publication No. US20040019195A1
; GENERAL INFORMATION:
; APPLICANT: Schlom, Jeffrey;
; APPLICANT: Hodges, James;
; APPLICANT: Panicali, Dennis
; TITLE OF INVENTION: A recombinant vector expressing multiple costimulatory
; FILE OF INVENTION: molecules and uses thereof
; FILE REFERENCE: 38163-0189
; CURRENT APPLICATION NUMBER: US/10/406,317
; CURRENT FILING DATE: 2003-04-04
; PRIOR APPLICATION NUMBER: US/09/856,988
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: PCT/US99/26866
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/111,582
; PRIOR FILING DATE: 1998-12-09
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 30
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
; OTHER INFORMATION: PEPTIDE
US-10-406-317-30

Query Match          100.0%; Score 46; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 MLDLQPEPT 9
        |||||
        2 MLDLQPEPT 10

RESULT 18
US-10-297-168-30
; Sequence 30, Application US/10297168
; Publication No. US20040091995A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, Jeffrey
; APPLICANT: GREINER, John W.
; APPLICANT: KASS, Erik
; APPLICANT: PANICALI, Dennis
; TITLE OF INVENTION: RECOMBINANT NON-REPLICATING VIRUS EXPRESSING GM-CSF AND
; FILE OF INVENTION: USES THEREOF TO ENHANCE IMMUNE RESPONSES
; FILE REFERENCE: 38163-0167
; CURRENT APPLICATION NUMBER: US/10/297,168
; CURRENT FILING DATE: 2002-12-03
; PRIOR APPLICATION NUMBER: PCT/US01/19201
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US60/211,717
; PRIOR FILING DATE: 2000-06-15
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 30
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-297-168-30

Query Match          100.0%; Score 46; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

Qy 1 MLDLQPEPT 9
|||||
Db 2 MLDLQPEPT 10

RESULT 19
US-10-777-053-329
; Sequence 329, Application US/10777053
; Publication No. US20040132088A1
; GENERAL INFORMATION:
; APPLICANT: Simard, John J. L.
; APPLICANT: Diamond, David C.
; APPLICANT: Qiu, Zhiyong
; APPLICANT: Lei, Xiang-Dong
; TITLE OF INVENTION: EXPRESSION VECTORS ENCODING EPITOPES OF
; TITLE OF INVENTION: TARGET-ASSOCIATED ANTIGENS AND METHODS FOR THEIR DESIGN
; FILE REFERENCE: MANK.022C1
; CURRENT APPLICATION NUMBER: US/10/777,053
; CURRENT FILING DATE: 2004-02-10
; PRIOR APPLICATION NUMBER: 10/292,413
; PRIOR FILING DATE: 2002-11-07
; PRIOR APPLICATION NUMBER: 60/336,968
; PRIOR FILING DATE: 2001-11-07
; NUMBER OF SEQ ID NOS: 979
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 329
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papillomavirus 16
US-10-777-053-329

Query Match 100.0%; Score 46; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MLDLQPEPT 9
|||||
Db 2 MLDLQPEPT 10

RESULT 20
US-10-777-053-542
; Sequence 542, Application US/10777053
; Publication No. US20040132088A1
; GENERAL INFORMATION:
; APPLICANT: Simard, John J. L.
; APPLICANT: Diamond, David C.
; APPLICANT: Qiu, Zhiyong
; APPLICANT: Lei, Xiang-Dong
; TITLE OF INVENTION: EXPRESSION VECTORS ENCODING EPITOPES OF
; TITLE OF INVENTION: TARGET-ASSOCIATED ANTIGENS AND METHODS FOR THEIR DESIGN
; FILE REFERENCE: MANK.022C1
; CURRENT APPLICATION NUMBER: US/10/777,053
; CURRENT FILING DATE: 2004-02-10
; PRIOR APPLICATION NUMBER: 10/292,413
; PRIOR FILING DATE: 2002-11-07
; PRIOR APPLICATION NUMBER: 60/336,968
; PRIOR FILING DATE: 2001-11-07
; NUMBER OF SEQ ID NOS: 979
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 542
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-10-777-053-542

Query Match 100.0%; Score 46; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MLDLQPEPT 9
|||||
Db 2 MLDLQPEPT 10

RESULT 21
US-10-837-217-329

; Sequence 329, Application US/10837217
; Publication No. US20040203051A1
; GENERAL INFORMATION:
; APPLICANT: Simard, John J. L.
; APPLICANT: Diamond, David C.
; APPLICANT: Qiu, Zhiyong
; APPLICANT: Lei, Xiang-Dong
; TITLE OF INVENTION: EXPRESSION VECTORS ENCODING EPITOPES OF
; TITLE OF INVENTION: TARGET-ASSOCIATED ANTIGENS AND METHODS FOR THEIR DESIGN
; FILE REFERENCE: MANK.022C2
; CURRENT APPLICATION NUMBER: US/10/837,217
; CURRENT FILING DATE: 2004-04-30
; PRIOR APPLICATION NUMBER: 10/292,413
; PRIOR FILING DATE: 2002-11-07
; PRIOR APPLICATION NUMBER: 60/336,968
; PRIOR FILING DATE: 2001-11-07
; NUMBER OF SEQ ID NOS: 979
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 329
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papillomavirus 16
US-10-837-217-329

Query Match 100.0%; Score 46; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MLDLQPEPT 9
|||||
Db 2 MLDLQPEPT 10

RESULT 22
US-10-837-217-542
; Sequence 542, Application US/10837217
; Publication No. US20040203051A1
; GENERAL INFORMATION:
; APPLICANT: Simard, John J. L.
; APPLICANT: Diamond, David C.
; APPLICANT: Qiu, Zhiyong
; APPLICANT: Lei, Xiang-Dong
; TITLE OF INVENTION: EXPRESSION VECTORS ENCODING EPITOPES OF
; TITLE OF INVENTION: TARGET-ASSOCIATED ANTIGENS AND METHODS FOR THEIR DESIGN
; FILE REFERENCE: MANK.022C2
; CURRENT APPLICATION NUMBER: US/10/837,217
; CURRENT FILING DATE: 2004-04-30
; PRIOR APPLICATION NUMBER: 10/292,413
; PRIOR FILING DATE: 2002-11-07
; PRIOR APPLICATION NUMBER: 60/336,968
; PRIOR FILING DATE: 2001-11-07
; NUMBER OF SEQ ID NOS: 979
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 542
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-10-837-217-542

Query Match 100.0%; Score 46; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MLDLQPEPT 9
|||||
Db 2 MLDLQPEPT 10

RESULT 23

```
US-10-890-526-19
; Sequence 19, Application US/10890526
; Publication No. US20040258708A1
; GENERAL INFORMATION:
; APPLICANT: Jochims, Ingrid
; APPLICANT: Nieland, John
; TITLE OF INVENTION: Cytotoxic T-Cell Epitopes of the
; TITLE OF INVENTION: Papilloma Virus L1-Protein and Use Thereof in Diagnosis and
; FILE REFERENCE: 50125/036001
; CURRENT APPLICATION NUMBER: US/10/890,526
; CURRENT FILING DATE: 2004-07-13
; PRIOR APPLICATION NUMBER: US/09/980,177
; PRIOR FILING DATE: 2002-05-02
; PRIOR APPLICATION NUMBER: PCT/EP00/05006
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: DE 19925199.1
; PRIOR FILING DATE: 1999-06-01
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 19
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-890-526-19

Query Match      100.0%; Score 46; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 MIDLQETT 9
        |||||
Db       2 MIDLQETT 10

RESULT 24
US-10-751-845-105
; Sequence 105, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 105
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-105

Query Match      100.0%; Score 46; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 MIDLQETT 9
        |||||
Db       2 MIDLQETT 10

RESULT 25
US-10-776-521B-366
; Sequence 366, Application US/10776521B
; Publication No. US20050202033A1
; GENERAL INFORMATION:
; APPLICANT: Fletcher, Jesseica
; APPLICANT: Prince-Cohane, Kenya
; APPLICANT: Mehta, Sunil
; APPLICANT: Slusarewicz, Paul
; APPLICANT: Andjelic, Sofija
; APPLICANT: Barber, Brian
; TITLE OF INVENTION: IMPROVED HEAT SHOCK PROTEIN-BASED VACCINES AND
; TITLE OF INVENTION: IMMUNOTHERAPIES
; FILE REFERENCE: 8449-405-999
; CURRENT APPLICATION NUMBER: US/10/776,521B
; CURRENT FILING DATE: 2004-02-12
; PRIOR APPLICATION NUMBER: 60/503,417
; PRIOR FILING DATE: 2003-09-16
; PRIOR APPLICATION NUMBER: 60/463,746
; PRIOR FILING DATE: 2003-04-18
; PRIOR APPLICATION NUMBER: 60/462,469
; PRIOR FILING DATE: 2003-04-11
; PRIOR APPLICATION NUMBER: 60/447,142
; PRIOR FILING DATE: 2003-02-13
; NUMBER OF SEQ ID NOS: 419
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 366
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Heat shock protein binding domain
US-10-776-521B-366

Query Match      100.0%; Score 46; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 MIDLQETT 9
        |||||
Db       2 MIDLQETT 10

RESULT 26
US-10-820-067A-877
; Sequence 877, Application US/10820067A
; Publication No. US20050214312A1
; GENERAL INFORMATION:
; APPLICANT: Fletcher, J.
; APPLICANT: Prince-Cohane, K.
; APPLICANT: Mehta, S.
; APPLICANT: Slusarewicz, P.
; APPLICANT: Andjelic, S.
; APPLICANT: Barber, B.
; TITLE OF INVENTION: IMPROVED HEAT SHOCK PROTEIN-BASED
; TITLE OF INVENTION: VACCINES AND IMMUNOTHERAPIES
; FILE REFERENCE: 8449-406-999
; CURRENT APPLICATION NUMBER: US/10/820,067A
; CURRENT FILING DATE: 2004-04-08
; PRIOR APPLICATION NUMBER: 60/462,469
; PRIOR FILING DATE: 2003-04-11
; PRIOR APPLICATION NUMBER: 60/463,746
; PRIOR FILING DATE: 2003-04-18
; PRIOR APPLICATION NUMBER: 60/503,417
; PRIOR FILING DATE: 2003-09-16
; NUMBER OF SEQ ID NOS: 926
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 877
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Heat shock-protein binding motif to form hybrid antigen
US-10-820-067A-877

Query Match      100.0%; Score 46; DB 5; Length 10;
```

Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLOPETT 9
|||||
DB 2 MLDLOPETT 10

RESULT 27

US-10-062-710-206
; Sequence 206, Application US/10062710
; Publication No. US20030049253A1
; GENERAL INFORMATION:
; APPLICANT: Li, Frank Q.
; APPLICANT: Chu, Yong-Liang
; APPLICANT: Qiu, Jian-Tai
; TITLE OF INVENTION: Polymeric Conjugates for Delivery of
; TITLE OF INVENTION: MHC-Recognized Epitopes
; TITLE OF INVENTION: Via Peptide Vaccines
; FILE REFERENCE: 3781-001-27
; CURRENT APPLICATION NUMBER: US/10/062,710
; PRIOR FILING DATE: 2002-02-05
; PRIOR APPLICATION NUMBER: US 60/310,498
; PRIOR FILING DATE: 2001-08-08
; NUMBER OF SEQ ID NOS: 232
; SOFTWARE: PasteSeq for Windows Version 4.0
; SEQ ID NO 206
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: T Cell epitopes
US-10-062-710-206

Query Match 100.0%; Score 46; DB 4; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.073;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLOPETT 9
|||||
DB 3 MLDLOPETT 11

RESULT 28

US-10-648-547-72
; Sequence 72, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mittelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 72
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-72

Query Match 100.0%; Score 46; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLOPETT 9
|||||
DB 2 MLDLOPETT 10

RESULT 29

US-10-648-547-80
; Sequence 80, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mittelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 80
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-80

Query Match 100.0%; Score 46; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLOPETT 9
|||||
DB 3 MLDLOPETT 11

RESULT 30

US-10-648-547-92
; Sequence 92, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mittelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 92
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-92

Query Match 100.0%; Score 46; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLOPETT 9
|||||
DB 6 MLDLOPETT 14

RESULT 31

US-10-476-570-45
; Sequence 45, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE

```

; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 45
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E7 6-20
US-10-476-570-45

Query Match          100.0%; Score 46; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLQPERT 9
Db 7 MLDLQPERT 15
```

```

RESULT 32
US-10-476-570-46
; Sequence 46, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 46
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E7 9-23
US-10-476-570-46

Query Match          100.0%; Score 46; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```

QY 1 MLDLQPERT 9
Db 4 MLDLQPERT 12

RESULT 33
US-10-306-541-72
```

```

; Sequence 72, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/4
; CURRENT APPLICATION NUMBER: US/10/306,541
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 2001-11-23
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 72
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-306-541-72
```

```

Query Match          100.0%; Score 46; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLQPERT 9
Db 2 MLDLQPERT 10
```

```

RESULT 34
US-10-306-541-80
; Sequence 80, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/4
; CURRENT APPLICATION NUMBER: US/10/306,541
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 2001-11-23
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 80
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-306-541-80
```

```

Query Match          100.0%; Score 46; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLQPERT 9
Db 3 MLDLQPERT 11
```

```

RESULT 35
US-10-306-541-92
; Sequence 92, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/4
; CURRENT APPLICATION NUMBER: US/10/306,541
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 2001-11-23
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
```

```
; SEQ ID NO 92
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-306-541-92
```

```
Query Match          100.0%; Score 46; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 MDLQPEPT 9
    |||||
DB 6 MDLQPEPT 14
```

```
RESULT 36
US-10-751-845-67
; Sequence 67, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chic, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 67
; LENGTH: 19
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-67
```

```
Query Match          100.0%; Score 46; DB 5; Length 19;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 MDLQPEPT 9
    |||||
DB 6 MDLQPEPT 14
```

```
RESULT 37
US-10-432-465-44
; Sequence 44, Application US/10432465
; Publication No. US20040091479A1
; GENERAL INFORMATION:
; APPLICANT: Nieland, John
; APPLICANT: Kaufmann, Andreas
; APPLICANT: Kather, Angela
; APPLICANT: Schinz, Manuela
; TITLE OF INVENTION: T-Cell Epitopes of the Papillomavirus L1
; TITLE OF INVENTION: Protein and E7 Protein and Their Use in Diagnosis and
; FILE REFERENCE: 50125/077001
; CURRENT APPLICATION NUMBER: US/10/432,465
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: PCT/EP01/14037
; PRIOR FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: DE 10059631.2
; PRIOR FILING DATE: 2000-12-01
; NUMBER OF SEQ ID NOS: 116
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 44
; LENGTH: 20
```

```
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-432-465-44
```

```
Query Match          100.0%; Score 46; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 MDLQPEPT 9
    |||||
DB 12 MDLQPEPT 20
```

```
RESULT 38
US-10-432-465-45
; Sequence 45, Application US/10432465
; Publication No. US20040091479A1
; GENERAL INFORMATION:
; APPLICANT: Nieland, John
; APPLICANT: Kaufmann, Andreas
; APPLICANT: Kather, Angela
; APPLICANT: Schinz, Manuela
; TITLE OF INVENTION: T-Cell Epitopes of the Papillomavirus L1
; TITLE OF INVENTION: Protein and E7 Protein and Their Use in Diagnosis and
; FILE REFERENCE: 50125/077001
; CURRENT APPLICATION NUMBER: US/10/432,465
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: PCT/EP01/14037
; PRIOR FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: DE 10059631.2
; PRIOR FILING DATE: 2000-12-01
; NUMBER OF SEQ ID NOS: 116
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 45
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-432-465-45
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```
Query Match          100.0%; Score 46; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY 1 MDLQPEPT 9
    |||||
DB 1 MDLQPEPT 9
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```
RESULT 39
US-10-476-570-14
; Sequence 14, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIER, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 20
```

```
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E7 1-20
US-10-476-570-14

Query Match          100.0%; Score 46; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 MDLQPEPT 9
        |||||
Db      12 MDLQPEPT 20

RESULT 40
US-10-890-526-69
; Sequence 69, Application US/10890526
; Publication No. US20040258708A1
; GENERAL INFORMATION:
; APPLICANT: Jochims, Ingrid
; APPLICANT: Nieland, John
; TITLE OF INVENTION: Cytotoxic T-Cell Epitopes of the
; TITLE OF INVENTION: Papilloma Virus L1-Protein and Use Thereof in Diagnosis and
; TITLE OF INVENTION: Therapy
; FILE REFERENCE: 50125/036001
; CURRENT APPLICATION NUMBER: US/10/890,526
; CURRENT FILING DATE: 2004-07-13
; PRIOR APPLICATION NUMBER: US/09/980,177
; PRIOR FILING DATE: 2002-05-02
; PRIOR APPLICATION NUMBER: PCT/EP00/05006
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: DE 19925199.1
; PRIOR FILING DATE: 1999-06-01
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 69
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-890-526-69

Query Match          100.0%; Score 46; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 MDLQPEPT 9
        |||||
Db      12 MDLQPEPT 20

RESULT 41
US-10-890-526-70
; Sequence 70, Application US/10890526
; Publication No. US20040258708A1
; GENERAL INFORMATION:
; APPLICANT: Jochims, Ingrid
; APPLICANT: Nieland, John
; TITLE OF INVENTION: Cytotoxic T-Cell Epitopes of the
; TITLE OF INVENTION: Papilloma Virus L1-Protein and Use Thereof in Diagnosis and
; TITLE OF INVENTION: Therapy
; FILE REFERENCE: 50125/036001
; CURRENT APPLICATION NUMBER: US/10/890,526
; CURRENT FILING DATE: 2004-07-13
; PRIOR APPLICATION NUMBER: US/09/980,177
; PRIOR FILING DATE: 2002-05-02
; PRIOR APPLICATION NUMBER: PCT/EP00/05006
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: DE 19925199.1
; PRIOR FILING DATE: 1999-06-01
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 70
```

```
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-890-526-70

Query Match          100.0%; Score 46; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 MDLQPEPT 9
        |||||
Db      1 MDLQPEPT 9

RESULT 42
US-10-476-570-15
; Sequence 15, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: Papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 15
; LENGTH: 21
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E7 7-27
US-10-476-570-15

Query Match          100.0%; Score 46; DB 4; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 MDLQPEPT 9
        |||||
Db      6 MDLQPEPT 14

RESULT 43
US-10-776-521B-378
; Sequence 378, Application US/10776521B
; Publication No. US20050202033A1
; GENERAL INFORMATION:
; APPLICANT: Fletcher, Jessica
; APPLICANT: Prince-Cohane, Kenya
; APPLICANT: Mehta, Sunil
; APPLICANT: Slusarewicz, Paul
; APPLICANT: Andjelic, Sofija
; APPLICANT: Barber, Brian
; TITLE OF INVENTION: IMPROVED HEAT SHOCK PROTEIN-BASED VACCINES AND
; TITLE OF INVENTION: IMMUNOTHERAPIES
; FILE REFERENCE: 8449-405-999
; CURRENT APPLICATION NUMBER: US/10/776,521B
; CURRENT FILING DATE: 2004-02-12
; PRIOR APPLICATION NUMBER: 60/503,417
; PRIOR FILING DATE: 2003-09-16
; PRIOR APPLICATION NUMBER: 60/463,746
; PRIOR FILING DATE: 2003-04-18
```


;; PRIOR APPLICATION NUMBER: 60/462,469
;; PRIOR FILING DATE: 2003-04-11
;; PRIOR APPLICATION NUMBER: 60/447,142
;; PRIOR FILING DATE: 2003-02-13
;; NUMBER OF SEQ ID NOS: 419
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 378
;; LENGTH: 21
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Hybrid antigen
US-10-776-521B-378

Query Match 100.0%; Score 46; DB 5; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLOPETT 9
|||
Db 2 MLDLOPETT 10

RESULT 44
US-10-476-570-57
;; Sequence 57, Application US/10476570
;; Publication No. US20040170644A1
;; GENERAL INFORMATION:
;; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;; APPLICANT: MAILLIERE, Bernard
;; APPLICANT: BOURGAULT-VILLADA, Isabelle
;; APPLICANT: GUILLET, Jean-Gerard
;; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;; FILE REFERENCE: 45636-5071-US
;; CURRENT APPLICATION NUMBER: US/10/476,570
;; PRIOR FILING DATE: 2003-11-04
;; PRIOR APPLICATION NUMBER: PCT/FR02/01533
;; PRIOR FILING DATE: 2002-05-03
;; PRIOR APPLICATION NUMBER: FR 01 05980
;; PRIOR FILING DATE: 2001-05-04
;; NUMBER OF SEQ ID NOS: 63
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 57
;; LENGTH: 23
;; TYPE: PRT
;; ORGANISM: artificial sequence
;; FEATURE:
;; OTHER INFORMATION: Description of the artificial sequence: peptide E7 3-25
US-10-476-570-57

Query Match 100.0%; Score 46; DB 4; Length 23;
Best Local Similarity 100.0%; Pred. No. 0.16;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLOPETT 9
|||
Db 10 MLDLOPETT 18

RESULT 45
US-10-858-384-14
;; Sequence 14, Application US/10858384
;; Publication No. US20050033025A1
;; GENERAL INFORMATION:
;; APPLICANT: CHOPPIN, JEANNINE
;; APPLICANT: BOURGAULT VILLADA, ISABELLE
;; APPLICANT: GUILLET, JEAN-GERARD
;; APPLICANT: CONNAN, FRANCINE
;; APPLICANT: FERRIES, ESTELLE
;; TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 PROTEIN

;; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
;; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
;; FILE REFERENCE: 0508-1037-1
;; CURRENT APPLICATION NUMBER: US/10/858,384
;; CURRENT FILING DATE: 2004-06-02
;; PRIOR APPLICATION NUMBER: FR 9907012
;; PRIOR FILING DATE: 1999-06-03
;; NUMBER OF SEQ ID NOS: 24
;; SOFTWARE: PatentIn Ver. 3.2
;; SEQ ID NO 14
;; LENGTH: 23
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of the Artificial Sequence: Peptide fragment
US-10-858-384-14

Query Match 100.0%; Score 46; DB 5; Length 23;
Best Local Similarity 100.0%; Pred. No. 0.16;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLOPETT 9
|||
Db 10 MLDLOPETT 18

RESULT 46
US-09-828-645-3
;; Sequence 3, Application US/09828645
;; Publication No. US20030027750A1
;; GENERAL INFORMATION:
;; APPLICANT: Hu, Yao Xiong
;; TITLE OF INVENTION: Immunological Methodology for Discerning Human Papillomavirus
;; FILE REFERENCE: 146-1-002
;; CURRENT APPLICATION NUMBER: US/09/828,645
;; CURRENT FILING DATE: 2001-04-05
;; PRIOR FILING DATE: 2000-04-05
;; NUMBER OF SEQ ID NOS: 8
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 3
;; LENGTH: 30
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Derived from the E7 early region of HPV-16
US-09-828-645-3

Query Match 100.0%; Score 46; DB 3; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLOPETT 9
|||
Db 7 MLDLOPETT 15

RESULT 47
US-09-828-645-7
;; Sequence 7, Application US/09828645
;; Publication No. US20030027750A1
;; GENERAL INFORMATION:
;; APPLICANT: Hu, Yao Xiong
;; TITLE OF INVENTION: Immunological Methodology for Discerning Human Papillomavirus
;; FILE REFERENCE: 146-1-002
;; CURRENT APPLICATION NUMBER: US/09/828,645
;; CURRENT FILING DATE: 2001-04-05
;; PRIOR APPLICATION NUMBER: US 60/194,796
;; PRIOR FILING DATE: 2000-04-05
;; NUMBER OF SEQ ID NOS: 8
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 7

```
/ LENGTH: 30
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Derived from the E7 early region of HPV-16
/ NAME/KEY: misc feature
/ LOCATION: (19)..(19)
/ OTHER INFORMATION: Xaa = L-carboxymethylcysteine
US-09-828-645-7
```

```
Query Match          100.0%; Score 46; DB 3; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 MLDLQPETT 9
         |||||
Db      7 MLDLQPETT 15
```

```
RESULT 48
US-10-827-007-3
; Sequence 3, Application US/10827007
; Publication No. US20050042599A1
; GENERAL INFORMATION:
; APPLICANT: Impact Diagnostics
; APPLICANT: Hu, Yao Xiong
; TITLE OF INVENTION: Immunological Methodology for Discerning Human Papillomavirus
; FILE REFERENCE: 3352-2-1-3
; CURRENT APPLICATION NUMBER: US/10/827,007
; CURRENT FILING DATE: 2004-04-19
; PRIOR APPLICATION NUMBER: US 09/828,645
; PRIOR FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: US 60/194,796
; PRIOR FILING DATE: 2000-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3
; LENGTH: 30
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Derived from the E7 early coding region of HPV-16
US-10-827-007-3
```

```
Query Match          100.0%; Score 46; DB 5; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 MLDLQPETT 9
         |||||
Db      7 MLDLQPETT 15
```

```
RESULT 49
US-10-827-007-7
; Sequence 7, Application US/10827007
; Publication No. US20050042599A1
; GENERAL INFORMATION:
; APPLICANT: Impact Diagnostics
; APPLICANT: Hu, Yao Xiong
; TITLE OF INVENTION: Immunological Methodology for Discerning Human Papillomavirus
; FILE REFERENCE: 3352-2-1-3
; CURRENT APPLICATION NUMBER: US/10/827,007
; CURRENT FILING DATE: 2004-04-19
; PRIOR APPLICATION NUMBER: US 09/828,645
; PRIOR FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: US 60/194,796
; PRIOR FILING DATE: 2000-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 7
```

```
/ LENGTH: 30
/ TYPE: PRT
/ ORGANISM: Artificial
/ FEATURE:
/ OTHER INFORMATION: Derived from the E7 early coding region of HPV-16
/ NAME/KEY: MISC FEATURE
/ LOCATION: (19)..(19)
/ OTHER INFORMATION: Xaa = L-Carboxymethylcysteine
US-10-827-007-7
```

```
Query Match          100.0%; Score 46; DB 5; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 MLDLQPETT 9
         |||||
Db      7 MLDLQPETT 15
```

```
RESULT 50
US-10-827-083-3
; Sequence 3, Application US/10827083
; Publication No. US20050042600A1
; GENERAL INFORMATION:
; APPLICANT: Impact Diagnostics
; APPLICANT: Hu, Yao Xiong
; TITLE OF INVENTION: Immunological Methodology for Discerning Human Papillomavirus
; FILE REFERENCE: 3352-2-1-4
; CURRENT APPLICATION NUMBER: US/10/827,083
; CURRENT FILING DATE: 2004-04-19
; PRIOR APPLICATION NUMBER: US 09/828,645
; PRIOR FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: US 60/194,796
; PRIOR FILING DATE: 2000-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3
; LENGTH: 30
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Derived from the E7 early coding region of HPV-16
US-10-827-083-3
```

```
Query Match          100.0%; Score 46; DB 5; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 MLDLQPETT 9
         |||||
Db      7 MLDLQPETT 15
```

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Search completed: May 5, 2006, 08:39:21
Job time : 60 secs
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:29:56 ; Search time 8.4 Seconds
(without alignments)
49.591 Million cell updates/sec

Title: US-08-170-344-15
Perfect score: 46
Sequence: 1 MLDLPERT 9

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Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues
Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published Applications_AA_New.*
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5: /SIDS5/ptodata/1/pubppaa/PCR_NEW_PUB.pep1.*
6: /SIDS5/ptodata/1/pubppaa/US09_NEW_PUB.pep1.*
7: /SIDS5/ptodata/1/pubppaa/US10_NEW_PUB.pep1.*
8: /SIDS5/ptodata/1/pubppaa/US11_NEW_PUB.pep1.*
9: /SIDS5/ptodata/1/pubppaa/US10_NEW_PUB.pep1.*
10: /SIDS5/ptodata/1/pubppaa/US11_NEW_PUB.pep1.*
11: /SIDS5/ptodata/1/pubppaa/US60_NEW_PUB.pep1.*
12: /SIDS5/ptodata/1/pubppaa/US60_NEW_PUB.pep1.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	46	100.0	15	9	US-10-530-061-1711
2	46	100.0	15	9	US-10-530-061-1749
3	46	100.0	98	8	US-10-511-814-8
4	46	100.0	98	8	US-10-511-814-11
5	46	100.0	98	9	US-10-530-253-14
6	46	100.0	98	11	US-11-179-478-4
7	46	100.0	248	9	US-10-530-253-1
8	46	100.0	248	9	US-10-530-253-3
9	46	100.0	248	9	US-10-530-253-5
10	46	100.0	248	9	US-10-530-253-7
11	46	100.0	248	9	US-10-530-253-9
12	46	100.0	248	9	US-10-530-253-11
13	46	100.0	256	11	US-11-192-923A-2
14	42	91.3	15	9	US-10-530-061-1731
15	42	91.3	99	9	US-10-530-253-34
16	37	80.4	15	9	US-10-530-061-1720
17	37	80.4	98	9	US-10-530-253-28
18	35	76.1	395	9	US-10-467-657-5266
19	34	73.9	99	9	US-10-530-253-30
20	34	73.9	324	11	US-11-188-298-3960
21	34	73.9	468	11	US-11-055-822-68

22	73.9	468	11	US-11-239-674-66	Sequence 66, Appl
23	73.9	510	11	US-11-087-099-4252	Sequence 4252, Ap
24	73.9	510	11	US-11-188-298-14373	Sequence 14373, A
25	73.9	646	11	US-11-087-099-10725	Sequence 10725, A
26	73.9	646	11	US-11-188-298-9913	Sequence 9913, Ap
27	73.9	698	11	US-11-087-099-8952	Sequence 8952, Ap
28	73.9	698	11	US-11-087-099-9341	Sequence 9341, Ap
29	73.9	698	11	US-11-188-298-8685	Sequence 8685, Ap
30	73.9	698	11	US-11-188-298-19289	Sequence 19289, A
31	71.7	847	9	US-10-242-586-94	Sequence 94, Appl
32	71.7	847	9	US-10-242-902-94	Sequence 94, Appl
33	71.7	847	9	US-10-243-116-94	Sequence 94, Appl
34	71.7	847	9	US-10-243-136-94	Sequence 94, Appl
35	71.7	847	9	US-10-243-189-94	Sequence 94, Appl
36	71.7	847	9	US-10-243-215-94	Sequence 94, Appl
37	71.7	847	9	US-10-243-236-94	Sequence 94, Appl
38	71.7	847	9	US-10-243-298-94	Sequence 94, Appl
39	71.7	847	9	US-10-243-304-94	Sequence 94, Appl
40	71.7	847	9	US-10-243-338-94	Sequence 94, Appl
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42	71.7	847	9	US-10-243-357-94	Sequence 94, Appl
43	71.7	847	9	US-10-245-083-94	Sequence 94, Appl
44	71.7	847	9	US-10-247-015-94	Sequence 94, Appl
45	69.6	253	11	US-11-087-099-11582	Sequence 11582, A
46	69.6	276	11	US-11-045-004-1264	Sequence 1264, Ap
47	69.6	291	11	US-11-045-004-391	Sequence 391, App
48	69.6	548	9	US-10-493-909-77	Sequence 77, Appl
49	69.6	548	9	US-10-493-909-78	Sequence 78, Appl
50	67.4	15	9	US-10-530-061-1745	Sequence 1745, Ap
51	67.4	15	9	US-10-530-061-1751	Sequence 1751, Ap
52	67.4	98	9	US-10-530-253-36	Sequence 36, Appl
53	67.4	257	11	US-11-188-298-18028	Sequence 18028, A
54	67.4	319	11	US-11-087-099-2481	Sequence 2481, Ap
55	67.4	337	11	US-11-188-298-7979	Sequence 7979, Ap
56	67.4	384	11	US-11-072-512-2534	Sequence 2534, Ap
57	67.4	548	11	US-11-188-298-6827	Sequence 6827, Ap
58	67.4	600	11	US-11-188-298-14041	Sequence 14041, A
59	67.4	964	11	US-11-016-706-39	Sequence 39, Appl
60	65.2	976	11	US-11-203-251A-76	Sequence 76, Appl
61	65.2	15	9	US-10-530-061-1724	Sequence 1724, Ap
62	65.2	15	9	US-10-530-061-1750	Sequence 1750, Ap
63	65.2	57	11	US-11-264-096-2241	Sequence 2241, Ap
64	65.2	97	9	US-10-530-253-29	Sequence 29, Appl
65	65.2	336	11	US-11-188-298-6516	Sequence 6516, Ap
66	65.2	336	11	US-11-188-298-13233	Sequence 13233, A
67	65.2	335	9	US-10-763-112A-81	Sequence 81, Appl
68	65.2	435	11	US-11-098-686-10568	Sequence 10568, A
69	65.2	461	11	US-11-072-512-2367	Sequence 2367, Ap
70	65.2	483	11	US-11-188-298-12703	Sequence 12703, A
71	65.2	513	9	US-10-979-095-2	Sequence 2, Appl1
72	65.2	539	11	US-11-079-463-9892	Sequence 9892, Ap
73	65.2	618	11	US-11-072-512-3605	Sequence 3605, Ap
74	65.2	764	11	US-11-188-298-22439	Sequence 22439, A
75	65.2	780	11	US-11-045-004-102	Sequence 102, App
76	65.2	864	11	US-11-194-246-343	Sequence 343, App
77	65.2	936	11	US-11-016-706-40	Sequence 40, Appl
78	65.2	137	11	US-11-019-711-47	Sequence 47, Appl
79	63.0	156	11	US-11-165-067A-11	Sequence 11, Appl
80	63.0	184	11	US-11-045-004-2177	Sequence 2177, Ap
81	63.0	200	11	US-11-087-099-6552	Sequence 6552, Ap
82	63.0	243	11	US-11-098-686-10515	Sequence 10515, A
83	63.0	243	11	US-11-045-004-797	Sequence 797, App
84	63.0	253	9	US-10-485-517-373	Sequence 373, App
85	63.0	348	11	US-11-045-004-2356	Sequence 2356, Ap
86	63.0	398	11	US-11-188-298-18665	Sequence 18665, A
87	63.0	400	11	US-11-079-463-5896	Sequence 5896, Ap
88	63.0	411	11	US-11-098-686-10169	Sequence 10169, A
89	63.0	412	11	US-11-188-298-17523	Sequence 17523, A
90	63.0	425	11	US-11-087-099-3547	Sequence 3547, Ap
91	63.0	425	8	US-10-505-928-594	Sequence 594, App
92	63.0	425	11	US-11-219-995-8	Sequence 8, Appl1
93	63.0	425	11	US-11-072-175-198	Sequence 198, App
94	63.0	425	11	US-11-299-122-2	Sequence 2, Appl1

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96	29	63.0	486	11	US-11-188-228-286	Sequence 286, App	169	28	60.9	574	9	US-10-966-483-31	Sequence 31, Appl1
97	29	63.0	620	11	US-11-072-512-2045	Sequence 2045, Ap	170	28	60.9	574	11	US-11-021-441-15	Sequence 15, Appl1
98	29	63.0	641	11	US-11-188-298-1204	Sequence 1204, Ap	171	28	60.9	581	9	US-10-966-483-27	Sequence 27, Appl1
99	29	63.0	724	11	US-11-079-463-10168	Sequence 10168, A	172	28	60.9	581	9	US-10-966-483-29	Sequence 29, Appl1
100	29	63.0	866	11	US-11-188-298-5746	Sequence 5746, Ap	173	28	60.9	581	11	US-11-021-441-11	Sequence 11, Appl1
101	29	63.0	935	9	US-10-995-561-1012	Sequence 1012, Ap	174	28	60.9	581	11	US-11-021-441-13	Sequence 13, Appl1
102	29	63.0	935	9	US-10-995-561-1013	Sequence 1013, Ap	175	28	60.9	591	11	US-11-188-298-1125	Sequence 2125, Ap
103	29	63.0	973	11	US-11-087-099-4325	Sequence 4325, Ap	176	28	60.9	626	11	US-11-045-004-447	Sequence 447, App
104	29	63.0	1075	9	US-10-745-586-197	Sequence 197, App	177	28	60.9	648	11	US-11-096-568A-17916	Sequence 17916, A
105	29	63.0	1134	11	US-11-087-099-1744	Sequence 1744, Ap	178	28	60.9	654	11	US-11-079-463-3792	Sequence 3792, Ap
106	29	63.0	1140	11	US-11-087-099-11073	Sequence 11073, A	179	28	60.9	673	9	US-10-784-004-394	Sequence 394, App
107	29	63.0	1584	11	US-11-188-298-16493	Sequence 16493, A	180	28	60.9	673	9	US-10-784-004-937	Sequence 937, App
108	29	63.0	1524	8	US-10-512-386-56	Sequence 56, App	181	28	60.9	676	9	US-10-784-004-716	Sequence 716, App
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110	29	63.0	7465	11	US-11-087-099-7521	Sequence 7521, Ap	183	28	60.9	700	11	US-11-098-686-10793	Sequence 10793, A
111	28	60.9	17	9	US-10-895-064-2899	Sequence 2899, Ap	184	28	60.9	718	11	US-11-096-568A-17915	Sequence 17915, A
112	28	60.9	17	9	US-11-129-741-2899	Sequence 2899, Ap	185	28	60.9	787	9	US-10-467-657-2832	Sequence 2832, Ap
113	28	60.9	141	11	US-11-119-098-1	Sequence 1, Appl1	186	28	60.9	848	11	US-11-096-568A-17914	Sequence 17914, A
114	28	60.9	157	11	US-11-096-568A-19538	Sequence 19538, A	187	28	60.9	848	11	US-11-096-568A-30056	Sequence 30056, A
115	28	60.9	183	11	US-11-172-740-2335	Sequence 2335, A	188	28	60.9	856	11	US-11-054-281-116	Sequence 116, App
116	28	60.9	187	11	US-11-087-099-5496	Sequence 5496, Ap	189	28	60.9	878	11	US-11-188-298-6160	Sequence 6160, Ap
117	28	60.9	187	11	US-11-087-099-7186	Sequence 7186, Ap	190	28	60.9	882	11	US-11-087-099-1384	Sequence 1384, Ap
118	28	60.9	198	11	US-11-255-547-2	Sequence 2, Appl1	191	28	60.9	882	11	US-11-087-099-3003	Sequence 3003, Ap
119	28	60.9	210	9	US-10-497-135-27	Sequence 27, Appl1	192	28	60.9	882	11	US-11-188-298-1398	Sequence 1398, Ap
120	28	60.9	210	9	US-10-497-135-28	Sequence 28, Appl1	193	28	60.9	882	11	US-11-188-298-2823	Sequence 2823, Ap
121	28	60.9	210	11	US-11-269-215-27	Sequence 27, Appl1	194	28	60.9	939	11	US-11-188-298-10003	Sequence 10003, A
122	28	60.9	210	11	US-11-269-215-28	Sequence 28, Appl1	195	28	60.9	976	9	US-10-966-483-2	Sequence 2, Appl1
123	28	60.9	213	11	US-11-096-568A-19537	Sequence 19537, A	196	28	60.9	976	9	US-10-511-279-1	Sequence 1, Appl1
124	28	60.9	236	11	US-11-054-281-118	Sequence 118, App	197	28	60.9	976	11	US-11-233-796-2	Sequence 2, Appl1
125	28	60.9	237	11	US-11-144-947-484	Sequence 494, App	198	28	60.9	976	11	US-11-072-175-138	Sequence 138, App
126	28	60.9	244	11	US-11-096-568A-10043	Sequence 10043, A	199	28	60.9	976	11	US-11-203-251A-77	Sequence 77, Appl1
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128	28	60.9	274	11	US-11-079-463-6399	Sequence 6399, A	201	28	60.9	994	11	US-11-096-568A-30054	Sequence 30054, A
129	28	60.9	282	11	US-11-096-568A-10042	Sequence 10042, A	202	28	60.9	1032	11	US-11-014-367-3	Sequence 3, Appl1
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131	28	60.9	308	11	US-11-173-740-1241	Sequence 1241, Ap	204	28	60.9	1035	11	US-11-021-441-4	Sequence 4, Appl1
132	28	60.9	312	11	US-11-054-281-32	Sequence 32, Appl1	205	28	60.9	1116	11	US-11-188-298-6023	Sequence 6023, Ap
133	28	60.9	312	11	US-11-054-281-320	Sequence 320, App	206	28	60.9	1116	11	US-11-087-099-1095	Sequence 1095, Ap
134	28	60.9	312	11	US-11-054-281-324	Sequence 324, App	207	28	60.9	1126	11	US-11-087-099-4533	Sequence 2533, Ap
135	28	60.9	312	11	US-11-072-512-2822	Sequence 2822, Ap	208	28	60.9	1130	11	US-11-087-099-6723	Sequence 6723, Ap
136	28	60.9	322	11	US-11-188-298-19156	Sequence 19156, A	209	28	60.9	1136	11	US-11-072-512-2933	Sequence 2933, Ap
137	28	60.9	327	11	US-11-188-298-10780	Sequence 10780, A	210	28	60.9	1294	11	US-11-188-298-9622	Sequence 9622, Ap
138	28	60.9	347	9	US-10-821-234-1136	Sequence 1136, Ap	211	28	60.9	1367	9	US-10-995-561-538	Sequence 538, App
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140	28	60.9	357	11	US-11-087-099-3583	Sequence 3583, Ap	213	28	60.9	1367	11	US-11-113-202-18	Sequence 18, Appl1
141	28	60.9	357	11	US-11-188-298-3367	Sequence 3367, Ap	214	28	60.9	1368	9	US-10-995-561-539	Sequence 539, App
142	28	60.9	359	9	US-10-821-234-1396	Sequence 1396, Ap	215	28	60.9	3433	11	US-11-186-284-26	Sequence 26, Appl1
143	28	60.9	359	9	US-10-784-004-738	Sequence 738, App	216	28	60.9	3433	11	US-10-714-781A-67	Sequence 67, Appl1
144	28	60.9	359	11	US-11-188-298-19926	Sequence 14926, A	217	28	60.9	3433	11	US-11-223-729-2	Sequence 2, Appl1
145	28	60.9	360	11	US-11-188-298-14633	Sequence 14633, A	218	27	58.7	64	11	US-11-188-298-10871	Sequence 20871, A
146	28	60.9	361	11	US-11-188-298-2340	Sequence 2340, Ap	219	27	58.7	97	9	US-10-475-075-306	Sequence 306, App
147	28	60.9	362	11	US-11-087-099-3064	Sequence 3064, Ap	220	27	58.7	97	9	US-10-475-075-547	Sequence 547, App
148	28	60.9	362	11	US-11-188-298-2898	Sequence 2898, Ap	221	27	58.7	105	11	US-11-155-775-12	Sequence 12, Appl1
149	28	60.9	363	11	US-11-054-281-120	Sequence 120, App	222	27	58.7	105	11	US-11-193-512-82	Sequence 98, Appl1
150	28	60.9	368	11	US-11-096-568A-10041	Sequence 10041, A	223	27	58.7	127	11	US-11-193-512-98	Sequence 98, Appl1
151	28	60.9	375	11	US-11-079-463-7179	Sequence 7179, Ap	224	27	58.7	127	11	US-11-193-512-103	Sequence 103, App
152	28	60.9	383	11	US-11-096-568A-24799	Sequence 24799, A	225	27	58.7	134	11	US-11-045-004-2476	Sequence 2476, Ap
153	28	60.9	399	11	US-11-188-298-5973	Sequence 5973, Ap	226	27	58.7	135	11	US-11-100-338-49	Sequence 49, Appl1
154	28	60.9	417	11	US-11-096-568A-24788	Sequence 24788, A	227	27	58.7	146	11	US-11-096-568A-16341	Sequence 16341, A
155	28	60.9	433	11	US-11-096-568A-32450	Sequence 32450, A	228	27	58.7	161	11	US-11-096-568A-10019	Sequence 10019, A
156	28	60.9	442	11	US-11-096-568A-24797	Sequence 24797, A	229	27	58.7	161	11	US-11-096-568A-10019	Sequence 10019, A
157	28	60.9	445	11	US-11-087-099-6435	Sequence 6435, Ap	230	27	58.7	162	11	US-11-072-740-1237	Sequence 1237, Ap
158	28	60.9	451	11	US-11-188-298-5867	Sequence 5867, Ap	231	27	58.7	166	9	US-10-219-064-116	Sequence 116, App
159	28	60.9	451	11	US-11-188-298-1428	Sequence 1428, Ap	232	27	58.7	166	9	US-10-219-064-116	Sequence 116, App
160	28	60.9	486	11	US-11-188-298-7991	Sequence 7991, Ap	233	27	58.7	166	9	US-10-219-064-116	Sequence 116, App
161	28	60.9	486	11	US-11-188-298-22007	Sequence 22007, A	234	27	58.7	166	9	US-10-219-064-116	Sequence 116, App
162	28	60.9	489	11	US-11-188-298-22007	Sequence 22007, A	235	27	58.7	166	9	US-10-219-064-116	Sequence 116, App
163	28	60.9	489	11	US-11-188-298-22007	Sequence 22007, A	236	27	58.7	166	9	US-10-219-064-116	Sequence 116, App
164	28	60.9	502	9	US-10-966-483-23	Sequence 23, Appl1	237	27	58.7	168	11	US-11-108-173-331	Sequence 611, App
165	28	60.9	502	9	US-11-021-441-7	Sequence 7, Appl1	238	27	58.7	170	11	US-10-522-153-4	Sequence 4, Appl1
166	28	60.9	543	11	US-11-072-512-2140	Sequence 2140, Ap	239	27	58.7	170	11	US-11-134-811-51	Sequence 51, Appl1
167	28	60.9	563	9	US-10-966-483-25	Sequence 25, Appl1	240	27	58.7	176	11	US-11-096-568A-767	Sequence 767, App

241	27	58.7	193	11	US-11-079-463-6181	Sequence 6181, App	314	27	58.7	415	11	US-11-055-822-816	Sequence 816, App
242	27	58.7	201	11	US-11-072-512-3518	Sequence 3518, App	315	27	58.7	419	11	US-11-096-568A-10209	Sequence 10209, A
243	27	58.7	203	11	US-11-096-568A-22713	Sequence 22713, A	316	27	58.7	419	11	US-11-188-298-16523	Sequence 16523, A
244	27	58.7	206	11	US-11-096-568A-16339	Sequence 16339, A	317	27	58.7	426	11	US-11-087-099-1192	Sequence 1192, A
245	27	58.7	207	11	US-11-188-298-9072	Sequence 9072, App	318	27	58.7	426	11	US-11-188-298-2607	Sequence 2607, App
246	27	58.7	208	11	US-11-128-440-6	Sequence 6, App1	319	27	58.7	427	11	US-11-087-099-1196	Sequence 1196, App
247	27	58.7	210	9	US-10-330-773-614	Sequence 614, App	320	27	58.7	427	11	US-11-096-568A-33431	Sequence 33431, A
248	27	58.7	211	11	US-11-188-298-21549	Sequence 21549, A	321	27	58.7	427	11	US-11-188-298-1543	Sequence 1543, App
249	27	58.7	220	11	US-11-096-568A-22712	Sequence 22712, A	322	27	58.7	427	11	US-11-188-298-1858	Sequence 1858, App
250	27	58.7	229	9	US-10-330-773-616	Sequence 616, App	323	27	58.7	427	11	US-11-188-298-6744	Sequence 6744, App
251	27	58.7	232	9	US-10-745-586-139	Sequence 139, App	324	27	58.7	427	11	US-11-188-298-1337	Sequence 1337, A
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253	27	58.7	235	9	US-10-453-372-408	Sequence 408, App	326	27	58.7	427	11	US-11-188-298-17629	Sequence 17629, A
254	27	58.7	236	11	US-11-096-568A-25135	Sequence 25135, A	327	27	58.7	428	11	US-11-188-298-5953	Sequence 5953, App
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257	27	58.7	239	9	US-10-453-372-404	Sequence 404, App	330	27	58.7	430	11	US-11-188-298-3939	Sequence 3939, App
258	27	58.7	248	11	US-11-096-568A-10018	Sequence 10018, A	331	27	58.7	431	11	US-11-188-298-3818	Sequence 3818, App
259	27	58.7	249	11	US-11-045-004-287	Sequence 287, App	332	27	58.7	431	11	US-11-188-298-20784	Sequence 20784, A
260	27	58.7	252	9	US-10-455-772-216	Sequence 216, App	333	27	58.7	431	11	US-11-096-568A-7208	Sequence 7208, App
261	27	58.7	262	11	US-11-098-686-10557	Sequence 10557, A	334	27	58.7	433	11	US-11-096-568A-7208	Sequence 7208, App
262	27	58.7	263	11	US-11-096-568A-766	Sequence 766, App	335	27	58.7	434	11	US-11-087-099-10521	Sequence 10521, A
263	27	58.7	283	11	US-11-057-012-93	Sequence 93, App1	336	27	58.7	434	11	US-11-087-099-10241	Sequence 10241, A
264	27	58.7	287	11	US-11-092-168-5	Sequence 5, App1	337	27	58.7	435	9	US-10-786-065-5	Sequence 5, App1
265	27	58.7	288	11	US-11-096-568A-33505	Sequence 33505, A	338	27	58.7	442	11	US-11-055-822-814	Sequence 814, App1
266	27	58.7	289	9	US-10-878-556A-122	Sequence 122, App	339	27	58.7	446	11	US-11-188-298-11895	Sequence 11895, A
267	27	58.7	293	11	US-11-172-740-1238	Sequence 1238, App	340	27	58.7	448	11	US-11-096-568A-7207	Sequence 7207, App
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269	27	58.7	299	11	US-11-172-740-1239	Sequence 1239, App	342	27	58.7	479	11	US-11-087-099-11307	Sequence 11307, A
270	27	58.7	302	11	US-11-096-568A-25134	Sequence 25134, A	343	27	58.7	486	11	US-11-024-959-279	Sequence 279, App
271	27	58.7	304	11	US-11-096-568A-33504	Sequence 33504, A	344	27	58.7	484	11	US-11-087-099-9605	Sequence 9605, App
272	27	58.7	314	11	US-11-172-740-1236	Sequence 1236, App	345	27	58.7	500	9	US-10-524-647-20	Sequence 20, App1
273	27	58.7	314	11	US-11-087-099-5913	Sequence 5913, App	346	27	58.7	500	9	US-10-524-972-20	Sequence 20, App1
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276	27	58.7	319	11	US-11-096-568A-25133	Sequence 25133, A	349	27	58.7	501	11	US-11-087-099-8133	Sequence 8133, App
277	27	58.7	320	11	US-11-096-568A-10017	Sequence 10017, A	350	27	58.7	501	11	US-11-087-099-9295	Sequence 9295, App
278	27	58.7	322	11	US-11-096-568A-22711	Sequence 22711, A	351	27	58.7	503	11	US-11-087-099-9082	Sequence 9082, App
279	27	58.7	324	11	US-11-096-568A-25533	Sequence 25533, A	352	27	58.7	510	11	US-11-045-004-1518	Sequence 1518, App
280	27	58.7	332	11	US-11-188-298-1683	Sequence 1683, App	353	27	58.7	511	11	US-11-087-099-9528	Sequence 9528, App
281	27	58.7	332	11	US-11-188-298-13440	Sequence 13440, A	354	27	58.7	516	11	US-11-087-099-6798	Sequence 6798, App
282	27	58.7	333	11	US-11-079-463-5375	Sequence 5375, App	355	27	58.7	516	11	US-11-216-267-36	Sequence 36, App1
283	27	58.7	334	11	US-11-087-099-11034	Sequence 11034, A	356	27	58.7	521	9	US-10-455-772-212	Sequence 212, App1
284	27	58.7	336	11	US-11-096-568A-25532	Sequence 25532, A	357	27	58.7	533	11	US-11-214-199-63	Sequence 63, App1
285	27	58.7	336	11	US-11-188-298-10146	Sequence 10146, A	358	27	58.7	536	11	US-11-018-866-42	Sequence 42, App1
286	27	58.7	336	11	US-11-188-298-20159	Sequence 20159, A	359	27	58.7	537	11	US-11-087-099-2165	Sequence 2165, App1
287	27	58.7	338	11	US-11-188-298-17125	Sequence 17125, A	360	27	58.7	539	11	US-11-069-642-16	Sequence 16, App1
288	27	58.7	343	9	US-10-786-065-2	Sequence 2, App1	361	27	58.7	550	11	US-11-188-298-7256	Sequence 7256, App
289	27	58.7	344	11	US-11-188-298-22047	Sequence 22047, A	362	27	58.7	558	11	US-11-096-568A-31859	Sequence 31859, A
290	27	58.7	346	11	US-11-188-298-21405	Sequence 21405, A	363	27	58.7	559	11	US-11-096-568A-31858	Sequence 31858, A
291	27	58.7	353	11	US-11-188-298-14220	Sequence 14220, A	364	27	58.7	572	11	US-11-201-916-25	Sequence 25, App1
292	27	58.7	353	11	US-11-188-298-17563	Sequence 17563, A	365	27	58.7	575	11	US-11-188-298-13893	Sequence 13893, A
293	27	58.7	362	11	US-11-096-568A-26576	Sequence 26576, A	366	27	58.7	587	11	US-11-096-568A-31857	Sequence 31857, A
294	27	58.7	371	11	US-11-188-298-6260	Sequence 6260, App	367	27	58.7	589	11	US-11-096-568A-30190	Sequence 30190, App
295	27	58.7	380	11	US-11-087-099-1795	Sequence 1795, App	368	27	58.7	589	11	US-11-188-298-5949	Sequence 5949, App
296	27	58.7	388	11	US-11-046-668-7	Sequence 7, App1	369	27	58.7	589	11	US-11-188-298-8319	Sequence 8319, App
297	27	58.7	392	11	US-11-188-298-2511	Sequence 2511, App	370	27	58.7	590	9	US-10-330-773-124	Sequence 124, App
298	27	58.7	392	11	US-11-188-298-11834	Sequence 11834, A	371	27	58.7	591	11	US-11-188-298-96410	Sequence 9610, App
299	27	58.7	392	11	US-11-188-298-13443	Sequence 13443, A	372	27	58.7	594	9	US-10-330-773-121	Sequence 121, App
300	27	58.7	393	11	US-11-188-298-16789	Sequence 16789, A	373	27	58.7	595	9	US-10-455-772-214	Sequence 214, App
301	27	58.7	394	11	US-11-052-554A-79	Sequence 79, App1	374	27	58.7	595	9	US-10-455-772-224	Sequence 224, App
302	27	58.7	396	11	US-11-188-298-6859	Sequence 6859, App	375	27	58.7	595	9	US-10-455-772-226	Sequence 226, App
303	27	58.7	398	11	US-11-046-668-9	Sequence 9, App1	376	27	58.7	595	9	US-10-455-772-228	Sequence 228, App
304	27	58.7	404	11	US-11-079-463-8737	Sequence 8737, App	377	27	58.7	595	9	US-10-455-772-230	Sequence 230, App
305	27	58.7	405	11	US-11-188-298-11243	Sequence 11243, A	378	27	58.7	595	9	US-10-455-772-232	Sequence 232, App
306	27	58.7	406	11	US-11-188-298-18864	Sequence 18864, A	379	27	58.7	595	9	US-10-455-772-234	Sequence 234, App
307	27	58.7	409	11	US-11-188-298-18864	Sequence 18864, A	380	27	58.7	595	9	US-10-455-772-236	Sequence 236, App
308	27	58.7	410	11	US-11-096-568A-33433	Sequence 33433, A	381	27	58.7	595	9	US-10-455-772-238	Sequence 238, App
309	27	58.7	410	11	US-11-096-568A-33432	Sequence 33432, A	382	27	58.7	595	9	US-10-455-772-240	Sequence 240, App
310	27	58.7	412	9	US-10-858-730-82	Sequence 82, App1	383	27	58.7	595	9	US-10-455-772-242	Sequence 242, App
311	27	58.7	414	11	US-11-096-568A-12745	Sequence 12745, A	384	27	58.7	596	9	US-10-455-772-220	Sequence 220, App
312	27	58.7	414	11	US-11-188-298-7204	Sequence 7204, App	385	27	58.7	596	9	US-10-455-772-220	Sequence 220, App
313	27	58.7	414	11	US-11-188-298-11713	Sequence 11713, A	386	27	58.7	596	9	US-10-455-772-222	Sequence 222, App

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388	27	58.7	601	11	US-11-072-512-2566	Sequence 2566, Ap	461	27	58.7	673	11	US-11-224-624-60	Sequence 60, Appl
389	27	58.7	603	11	US-11-096-568A-30189	Sequence 30189, A	462	27	58.7	673	11	US-11-224-624-62	Sequence 62, Appl
390	27	58.7	604	9	US-10-455-772-218	Sequence 218, App	463	27	58.7	673	11	US-11-224-624-64	Sequence 64, Appl
391	27	58.7	616	11	US-11-058-727-16	Sequence 16, Appl	464	27	58.7	673	11	US-11-224-624-66	Sequence 66, Appl
392	27	58.7	616	11	US-11-108-389-16	Sequence 16, Appl	465	27	58.7	673	11	US-11-224-624-68	Sequence 68, Appl
393	27	58.7	616	11	US-11-224-624-16	Sequence 16, Appl	466	27	58.7	673	11	US-11-224-624-70	Sequence 70, Appl
394	27	58.7	620	11	US-11-058-727-20	Sequence 20, Appl	467	27	58.7	673	11	US-11-224-624-86	Sequence 86, Appl
395	27	58.7	620	11	US-11-108-389-20	Sequence 20, Appl	468	27	58.7	673	11	US-11-224-624-88	Sequence 88, Appl
396	27	58.7	622	11	US-11-224-624-20	Sequence 20, Appl	469	27	58.7	673	11	US-11-224-624-90	Sequence 90, Appl
397	27	58.7	622	11	US-11-188-298-15979	Sequence 15979, A	470	27	58.7	673	11	US-11-224-624-92	Sequence 92, Appl
398	27	58.7	628	11	US-11-087-099-8127	Sequence 8127, Ap	471	27	58.7	673	11	US-11-224-624-94	Sequence 94, Appl
399	27	58.7	633	9	US-10-912-580-7	Sequence 7, Appl1	472	27	58.7	674	11	US-11-058-727-4	Sequence 4, Appl
400	27	58.7	633	9	US-10-912-582-1	Sequence 1, Appl1	473	27	58.7	674	11	US-11-058-727-50	Sequence 50, Appl
401	27	58.7	660	11	US-11-186-284-125	Sequence 125, App	474	27	58.7	674	11	US-11-058-727-76	Sequence 76, Appl
402	27	58.7	666	11	US-11-096-568A-32115	Sequence 32115, A	475	27	58.7	674	11	US-11-058-727-8	Sequence 8, Appl
403	27	58.7	668	11	US-11-188-298-768	Sequence 768, App	476	27	58.7	674	11	US-11-108-389-44	Sequence 44, Appl
404	27	58.7	669	11	US-11-058-727-6	Sequence 6, Appl1	477	27	58.7	674	11	US-11-108-389-50	Sequence 50, Appl
405	27	58.7	669	11	US-11-058-727-12	Sequence 12, Appl	478	27	58.7	674	11	US-11-108-389-76	Sequence 76, Appl
406	27	58.7	669	11	US-11-108-389-6	Sequence 6, Appl1	479	27	58.7	674	11	US-11-108-389-82	Sequence 82, Appl
407	27	58.7	669	11	US-11-108-389-12	Sequence 12, Appl	480	27	58.7	674	11	US-11-224-624-44	Sequence 44, Appl
408	27	58.7	669	11	US-11-224-624-6	Sequence 6, Appl1	481	27	58.7	674	11	US-11-224-624-50	Sequence 50, Appl
409	27	58.7	669	11	US-11-224-624-12	Sequence 12, Appl	482	27	58.7	674	11	US-11-224-624-76	Sequence 76, Appl
410	27	58.7	670	11	US-11-096-568A-32114	Sequence 32114, A	483	27	58.7	675	11	US-11-224-624-82	Sequence 82, Appl
411	27	58.7	671	11	US-11-188-298-9026	Sequence 9026, Ap	484	27	58.7	675	11	US-11-058-727-42	Sequence 42, Appl
412	27	58.7	673	11	US-11-058-727-8	Sequence 8, Appl1	485	27	58.7	675	11	US-11-058-727-46	Sequence 46, Appl
413	27	58.7	673	11	US-11-058-727-14	Sequence 14, Appl	486	27	58.7	675	11	US-11-058-727-48	Sequence 48, Appl
414	27	58.7	673	11	US-11-058-727-22	Sequence 22, Appl	487	27	58.7	675	11	US-11-058-727-74	Sequence 74, Appl
415	27	58.7	673	11	US-11-058-727-30	Sequence 26, Appl	488	27	58.7	675	11	US-11-058-727-80	Sequence 78, Appl
416	27	58.7	673	11	US-11-058-727-34	Sequence 30, Appl	489	27	58.7	675	11	US-11-058-727-86	Sequence 80, Appl
417	27	58.7	673	11	US-11-058-727-34	Sequence 34, Appl	490	27	58.7	675	11	US-11-108-389-42	Sequence 42, Appl
418	27	58.7	673	11	US-11-058-727-54	Sequence 54, Appl	491	27	58.7	675	11	US-11-108-389-46	Sequence 46, Appl
419	27	58.7	673	11	US-11-058-727-56	Sequence 56, Appl	492	27	58.7	675	11	US-11-108-389-48	Sequence 48, Appl
420	27	58.7	673	11	US-11-058-727-58	Sequence 58, Appl	493	27	58.7	675	11	US-11-108-389-78	Sequence 74, Appl
421	27	58.7	673	11	US-11-058-727-60	Sequence 60, Appl	494	27	58.7	675	11	US-11-108-389-80	Sequence 78, Appl
422	27	58.7	673	11	US-11-058-727-62	Sequence 62, Appl	495	27	58.7	675	11	US-11-224-624-80	Sequence 80, Appl
423	27	58.7	673	11	US-11-058-727-66	Sequence 64, Appl	496	27	58.7	675	11	US-11-224-624-82	Sequence 82, Appl
424	27	58.7	673	11	US-11-058-727-66	Sequence 66, Appl	497	27	58.7	675	11	US-11-224-624-46	Sequence 46, Appl
425	27	58.7	673	11	US-11-058-727-68	Sequence 68, Appl	498	27	58.7	675	11	US-11-224-624-48	Sequence 48, Appl
426	27	58.7	673	11	US-11-058-727-70	Sequence 70, Appl	499	27	58.7	675	11	US-11-224-624-74	Sequence 74, Appl
427	27	58.7	673	11	US-11-058-727-86	Sequence 86, Appl	500	27	58.7	675	11	US-11-224-624-78	Sequence 78, Appl
428	27	58.7	673	11	US-11-058-727-88	Sequence 88, Appl	501	27	58.7	675	11	US-11-224-624-80	Sequence 80, Appl
429	27	58.7	673	11	US-11-058-727-90	Sequence 90, Appl	502	27	58.7	676	11	US-11-058-727-40	Sequence 40, Appl
430	27	58.7	673	11	US-11-058-727-94	Sequence 92, Appl	503	27	58.7	676	11	US-11-058-727-72	Sequence 72, Appl
431	27	58.7	673	11	US-11-058-727-94	Sequence 94, Appl	504	27	58.7	676	11	US-11-108-389-40	Sequence 40, Appl
432	27	58.7	673	11	US-11-108-389-8	Sequence 8, Appl1	505	27	58.7	676	11	US-11-108-389-42	Sequence 42, Appl
433	27	58.7	673	11	US-11-108-389-14	Sequence 14, Appl	506	27	58.7	676	11	US-11-224-624-40	Sequence 40, Appl
434	27	58.7	673	11	US-11-108-389-22	Sequence 22, Appl	507	27	58.7	677	11	US-11-224-624-72	Sequence 72, Appl
435	27	58.7	673	11	US-11-108-389-26	Sequence 26, Appl	508	27	58.7	677	11	US-11-058-727-52	Sequence 52, Appl
436	27	58.7	673	11	US-11-108-389-30	Sequence 30, Appl	509	27	58.7	677	11	US-11-058-727-84	Sequence 84, Appl
437	27	58.7	673	11	US-11-108-389-34	Sequence 34, Appl	510	27	58.7	677	11	US-11-108-389-82	Sequence 84, Appl
438	27	58.7	673	11	US-11-108-389-54	Sequence 54, Appl	511	27	58.7	677	11	US-11-108-389-84	Sequence 84, Appl
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440	27	58.7	673	11	US-11-108-389-58	Sequence 58, Appl	513	27	58.7	677	11	US-11-224-624-84	Sequence 84, Appl
441	27	58.7	673	11	US-11-108-389-60	Sequence 60, Appl	514	27	58.7	677	11	US-11-096-568A-30188	Sequence 30188, A
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443	27	58.7	673	11	US-11-108-389-66	Sequence 64, Appl	516	27	58.7	685	11	US-11-126-022-34	Sequence 34, Appl
444	27	58.7	673	11	US-11-108-389-66	Sequence 66, Appl	517	27	58.7	706	9	US-11-188-298-11914	Sequence 917, App
445	27	58.7	673	11	US-11-108-389-68	Sequence 68, Appl	518	27	58.7	708	9	US-10-821-234-917	Sequence 2224, Ap
446	27	58.7	673	11	US-11-108-389-86	Sequence 86, Appl	519	27	58.7	724	9	US-11-072-512-2224	Sequence 194, App
447	27	58.7	673	11	US-11-108-389-88	Sequence 88, Appl	520	27	58.7	743	9	US-10-915-002-194	Sequence 6350, Ap
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449	27	58.7	673	11	US-11-108-389-90	Sequence 92, Appl	522	27	58.7	753	11	US-11-188-298-1188	Sequence 3350, Ap
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535	27	58.7	753	11	US-11-188-298-18969	Sequence 18969, A	608	26	56.5	72	9	US-10-467-657-6668	Sequence 6668, Ap
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537	27	58.7	753	11	US-11-188-298-20176	Sequence 20176, A	610	26	56.5	78	11	US-11-144-947-407	Sequence 407, App
538	27	58.7	753	11	US-11-188-298-20212	Sequence 20212, A	611	26	56.5	99	11	US-11-264-096-1626	Sequence 1626, Ap
539	27	58.7	753	11	US-11-188-298-22446	Sequence 22446, A	612	26	56.5	99	7	US-09-978-360A-411	Sequence 411, App
540	27	58.7	755	11	US-11-098-686-11087	Sequence 11087, A	613	26	56.5	99	7	US-09-978-360A-706	Sequence 706, App
541	27	58.7	758	11	US-11-087-099-7759	Sequence 7759, Ap	614	26	56.5	107	9	US-10-530-253-37	Sequence 37, Appl
542	27	58.7	762	11	US-11-087-099-3342	Sequence 3342, Ap	615	26	56.5	111	9	US-10-485-788A-781	Sequence 781, App
543	27	58.7	762	11	US-11-188-298-3131	Sequence 3131, Ap	616	26	56.5	111	9	US-11-053-076-163	Sequence 163, App
544	27	58.7	766	9	US-10-821-234-1691	Sequence 1691, Ap	617	26	56.5	112	11	US-11-045-004-207	Sequence 207, App
545	27	58.7	778	11	US-11-188-298-8840	Sequence 8840, Ap	618	26	56.5	115	11	US-11-079-463-8392	Sequence 8392, Ap
546	27	58.7	800	11	US-11-024-959-471	Sequence 471, App	619	26	56.5	133	11	US-11-096-568A-14187	Sequence 14187, A
547	27	58.7	800	11	US-11-024-959-511	Sequence 511, App	620	26	56.5	143	9	US-10-506-454-428	Sequence 428, App
548	27	58.7	821	9	US-10-912-580-9	Sequence 9, Appl	621	26	56.5	150	11	US-11-036-676-20	Sequence 20, Appl
549	27	58.7	821	9	US-10-912-582-3	Sequence 3, Appl	622	26	56.5	152	7	US-09-978-360A-452	Sequence 452, App
550	27	58.7	821	11	US-11-050-857-964	Sequence 964, App	623	26	56.5	152	9	US-10-216-161A-190	Sequence 190, App
551	27	58.7	821	11	US-11-043-806-484	Sequence 484, App	624	26	56.5	153	9	US-10-506-454-388	Sequence 388, App
552	27	58.7	845	11	US-11-147-047-46	Sequence 46, Appl	625	26	56.5	158	11	US-11-038-676-30	Sequence 30, Appl
553	27	58.7	845	11	US-11-264-096-483	Sequence 483, App	626	26	56.5	160	11	US-11-096-568A-28091	Sequence 28091, A
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557	27	58.7	882	11	US-11-043-806-384	Sequence 384, App	630	26	56.5	168	11	US-11-026-512-2698	Sequence 2698, Ap
558	27	58.7	896	11	US-11-218-020-15	Sequence 15, Appl	631	26	56.5	169	11	US-11-188-298-20585	Sequence 20585, A
559	27	58.7	901	11	US-11-050-857-963	Sequence 963, App	632	26	56.5	170	9	US-10-467-657-104	Sequence 104, App
560	27	58.7	901	11	US-11-043-806-483	Sequence 483, App	633	26	56.5	170	9	US-10-467-657-8078	Sequence 8078, App
561	27	58.7	903	11	US-11-096-568A-30089	Sequence 30089, A	634	26	56.5	172	9	US-10-821-234-1338	Sequence 1338, Ap
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563	27	58.7	934	11	US-11-096-568A-30087	Sequence 30087, A	636	26	56.5	190	11	US-11-087-099-8048	Sequence 8048, Ap
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568	27	58.7	1077	9	US-10-453-372-1086	Sequence 1086, Ap	641	26	56.5	199	11	US-11-096-568A-3918	Sequence 3918, Ap
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597	27	58.7	1907	11	US-11-000-463-250	Sequence 250, App	670	26	56.5	267	11	US-10-507-099-8618	Sequence 8618, Ap
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686	297	11	US-11-183-261-45	Sequence 45, Appl	759	26	56.5	442	11	US-11-172-740-457	Sequence 457, App
687	301	11	US-11-072-512-2223	Sequence 2223, Ap	760	26	56.5	444	11	US-11-172-740-456	Sequence 456, App
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690	307	11	US-11-188-298-9397	Sequence 9397, Ap	763	26	56.5	445	11	US-11-172-740-458	Sequence 458, App
691	308	11	US-11-098-686-10548	Sequence 10548, A	764	26	56.5	445	11	US-11-172-740-460	Sequence 460, App
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700	333	11	US-11-188-298-19643	Sequence 19643, A	773	26	56.5	445	11	US-11-172-740-714	Sequence 714, App
701	334	11	US-11-165-211-53	Sequence 53, Appl	774	26	56.5	445	11	US-11-172-740-715	Sequence 715, App
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703	335	11	US-11-188-298-1623	Sequence 1623, Ap	776	26	56.5	447	11	US-11-172-740-466	Sequence 466, App
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707	336	11	US-11-188-298-2907	Sequence 2907, Ap	780	26	56.5	447	11	US-11-172-740-713	Sequence 713, App
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709	337	11	US-11-172-740-432	Sequence 432, App	782	26	56.5	448	9	US-10-763-712A-112	Sequence 112, App
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742	387	9	US-10-714-887-278	Sequence 278, App	815	26	56.5	540	11	US-11-099-691-2	Sequence 785, App
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846	26	56.5	594	11	US-11-188-298-18849	Sequence 18849, A	919	26	56.5	3353	11	US-10-995-561-776	Sequence 776, App
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859	26	56.5	696	11	US-11-087-099-11029	Sequence 11029, A	932	25	54.3	115	11	US-10-530-253-40	Sequence 14411, A
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861	26	56.5	737	11	US-11-152-366-28	Sequence 28, App1	934	25	54.3	118	9	US-10-995-561-676	Sequence 676, App
862	26	56.5	737	11	US-11-072-512-2689	Sequence 2689, App	935	25	54.3	120	11	US-10-995-561-676	Sequence 18301, A
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864	26	56.5	783	8	US-10-509-131-25	Sequence 25, App1	937	25	54.3	124	11	US-11-064-174-5	Sequence 6, App1
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867	26	56.5	788	8	US-10-485-346-2	Sequence 2, App1	940	25	54.3	135	11	US-11-096-568A-26530	Sequence 26530, A
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881	26	56.5	1144	11	US-11-087-099-6734	Sequence 6734, App	954	25	54.3	170	11	US-11-172-740-1803	Sequence 1803, App
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893	26	56.5	1429	8	US-10-511-937-2621	Sequence 2621, App	966	25	54.3	211	11	US-11-096-568A-22112	Sequence 29112, A
894	26	56.5	1441	11	US-11-096-568A-34298	Sequence 34298, App	967	25	54.3	216	11	US-11-087-099-827	Sequence 827, App
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974 25 54.3 229 11 US-11-096-568A-15711 Sequence 15711, A
975 25 54.3 235 11 US-11-096-568A-26549 Sequence 26549, A
976 25 54.3 237 9 US-10-510-386-34 Sequence 34, Appl
977 25 54.3 237 11 US-11-096-568A-11978 Sequence 11978, A
978 25 54.3 249 9 US-10-909-957-2 Sequence 2, Appl1
979 25 54.3 250 11 US-11-188-298-14833 Sequence 14833, A
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981 25 54.3 253 11 US-11-096-568A-12345 Sequence 32345, A
982 25 54.3 255 11 US-11-179-977-3 Sequence 3, Appl1
983 25 54.3 257 11 US-11-087-099-3858 Sequence 3858, Ap
984 25 54.3 261 11 US-11-096-568A-7079 Sequence 7079, Ap
985 25 54.3 262 11 US-11-173-740-1774 Sequence 1774, Ap
986 25 54.3 265 9 US-10-793-626-1976 Sequence 1976, Ap
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988 25 54.3 269 11 US-11-096-568A-29824 Sequence 29824, A
989 25 54.3 269 11 US-11-188-298-11965 Sequence 11965, A
990 25 54.3 271 11 US-11-079-463-5305 Sequence 5305, Ap
991 25 54.3 275 9 US-10-821-234-1013 Sequence 1013, Ap
992 25 54.3 275 11 US-11-055-822-2 Sequence 2, Appl1
993 25 54.3 275 11 US-11-239-674-8 Sequence 8, Appl1
994 25 54.3 277 11 US-11-096-568A-240 Sequence 240, App
995 25 54.3 283 11 US-11-096-568A-11537 Sequence 11537, A
996 25 54.3 284 11 US-11-096-568A-239 Sequence 239, App
997 25 54.3 285 11 US-11-051-720-1493 Sequence 1493, Ap
998 25 54.3 287 11 US-11-080-991-66 Sequence 66, Appl
999 25 54.3 289 9 US-10-467-657-7802 Sequence 7802, Ap
1000 25 54.3 289 11 US-11-194-246-291 Sequence 291, App
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ALIGNMENTS

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RESULT 1
US-10-530-061-1711
; Sequence 1711, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: Patencin version 3.3
; SEQ ID NO 1711
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1711
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Best Local Similarity 100.0%; Pred. No. 0.0045;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 4 MDDLOPETT 12
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US-10-530-061-1749
; Sequence 1749, Application US/10530061
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; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: Patencin version 3.3
; SEQ ID NO 1749
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1749
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Best Local Similarity 100.0%; Pred. No. 0.0045;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 1 MDDLOPETT 9
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RESULT 3
US-10-511-814-8
; Sequence 8, Application US/10511814
; Publication No. US2006008472A1
; GENERAL INFORMATION:
; APPLICANT: McCance, Dennis
; APPLICANT: Westbrook, IIT, Thomas F.
; TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
; FILE REFERENCE: 21108.0016U2
; CURRENT APPLICATION NUMBER: US/10/511,814
; CURRENT FILING DATE: 2004-10-19
; PRIOR APPLICATION NUMBER: PCT/US03/12667
; PRIOR FILING DATE: 2003-04-21
; PRIOR APPLICATION NUMBER: 60/374,245
; PRIOR FILING DATE: 2002-04-19
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:/Note =
; OTHER INFORMATION: Synthetic Construct
US-10-511-814-8
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Best Local Similarity 100.0%; Pred. No. 0.037;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 MDDLOPETT 9
Db 12 MDDLOPETT 20
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RESULT 4
US-10-511-814-11
; Sequence 11, Application US/10511814
; Publication No. US2006008472A1
; GENERAL INFORMATION:
; APPLICANT: McCance, Dennis
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APPLICANT: Westbrook, III, Thomas F.
TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
FILE REFERENCE: 21108.0016U2
CURRENT APPLICATION NUMBER: US/10/511,814
CURRENT FILING DATE: 2004-10-19
PRIOR APPLICATION NUMBER: PCT/US03/12667
PRIOR FILING DATE: 2003-04-21
PRIOR APPLICATION NUMBER: 60/374,245
PRIOR FILING DATE: 2002-04-19
NUMBER OF SEQ ID NOS: 21
SOFTWARE: PaacSeq for Windows Version 4.0
SEQ ID NO 11
LENGTH: 98
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence:/Note =
OTHER INFORMATION: Synthetic Construct
US-10-511-814-11

Query Match 100.0%; Score 46; DB 8; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.037;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLOPETT 9
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Db 12 MLDLOPETT 20

RESULT 5
US-10-530-253-14
Sequence 14, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Cassetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 14
LENGTH: 98
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-530-253-14

Query Match 100.0%; Score 46; DB 9; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.037;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLOPETT 9
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Db 12 MLDLOPETT 20

RESULT 6
US-11-179-478-4
Sequence 4, Application US/11179478
Publication No. US20050249745A1
GENERAL INFORMATION:
APPLICANT: BURGER, Alexander
APPLICANT: HALLER, Michael
TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
FORMULATIONS AND METHODS OF USE
NUMBER OF SEQUENCES: 28

CORRESPONDENCE ADDRESS:
ADDRESSER: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/11/179,478
FILING DATE: 13-JULY-2005
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/10/654,129
FILING DATE: 04-Sep-2003
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Sandercock, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-11-179-478-4

Query Match 100.0%; Score 46; DB 11; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.037;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLOPETT 9
|||
Db 12 MLDLOPETT 20

RESULT 7
US-10-530-253-1
Sequence 1, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Cassetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 1
LENGTH: 248
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-530-253-1

Query Match 100.0%; Score 46; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MDDLQPEPT 9
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Db 162 MDDLQPEPT 170

RESULT 8
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-3

Query Match 100.0%; Score 46; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MDDLQPEPT 9
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Db 162 MDDLQPEPT 170

RESULT 9
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-5

Query Match 100.0%; Score 46; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MDDLQPEPT 9
| | | | |
Db 162 MDDLQPEPT 170

RESULT 10
US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 248
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; ORGANISM: Human papillomavirus type 16
US-10-530-253-7

Query Match 100.0%; Score 46; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MDDLQPEPT 9
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Db 12 MDDLQPEPT 20

RESULT 11
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-9

Query Match 100.0%; Score 46; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MDDLQPEPT 9
| | | | |
Db 12 MDDLQPEPT 20

RESULT 12
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:

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; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
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; SEQ ID NO 11
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-11

Query Match          100.0%; Score 46; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLOPETT 9
DB 12 MLDLOPETT 20

RESULT 13
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
; APPLICANT: PANG, XIAOMU
; TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
; FILE REFERENCE: 116620-003
; CURRENT APPLICATION NUMBER: US/11/192,923A
; PRIOR FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: CN 03115272.4
; PRIOR FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: CN 03115273.2
; PRIOR FILING DATE: 2003-01-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-11-192-923A-2

Query Match          100.0%; Score 46; DB 11; Length 256;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLOPETT 9
DB 12 MLDLOPETT 20

RESULT 14
US-10-530-061-1731
; Sequence 1731, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
```

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; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1731
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1731

Query Match          91.3%; Score 42; DB 9; Length 15;
Best Local Similarity 88.9%; Pred. No. 0.027;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLOPETT 9
DB 4 ILDLQPETT 12

RESULT 15
US-10-530-253-34
; Sequence 34, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 34
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Human papillomavirus type 52
US-10-530-253-34

Query Match          91.3%; Score 42; DB 9; Length 99;
Best Local Similarity 88.9%; Pred. No. 0.23;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLOPETT 9
DB 12 ILDLQPETT 20

RESULT 16
US-10-530-061-1720
; Sequence 1720, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
```

;; PRIOR APPLICATION NUMBER: 60/417,269
;; PRIOR FILING DATE: 2002-10-08
;; NUMBER OF SEQ ID NOS: 2503
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 1720
;; LENGTH: 15
;; TYPE: PRT
;; ORGANISM: Human papillomavirus
US-10-530-061-1720

Query Match 80.4%; Score 37; DB 9; Length 15;
Best Local Similarity 77.8%; Pred. No. 0.26; Mismatches 1; Indels 0; Gaps 0;
Matches 7; Conservative 1;

Qy 1 MLDLOPETT 9
Db 4 VLDLQPEAT 12

RESULT 17
US-10-530-253-28
; Sequence 28, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 28
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type 31
US-10-530-253-28

Query Match 80.4%; Score 37; DB 9; Length 98;
Best Local Similarity 77.8%; Pred. No. 2.1; Mismatches 1; Indels 0; Gaps 0;
Matches 7; Conservative 1;

Qy 1 MLDLOPETT 9
Db 12 VLDLQPEAT 20

RESULT 18
US-10-467-657-5266
; Sequence 5266, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SPA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqMin99, version 1.04
; SEQ ID NO 5266
; LENGTH: 395

;; TYPE: PRT
;; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-5266

Query Match 76.1%; Score 35; DB 9; Length 395;
Best Local Similarity 75.0%; Pred. No. 25; Mismatches 6; Indels 0; Gaps 0;
Matches 6; Conservative 2;

Qy 1 MLDLOPETS 8
Db 364 MLDLOPETS 371

RESULT 19
US-10-530-253-30
; Sequence 30, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 30
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Human papillomavirus type 35
US-10-530-253-30

Query Match 73.9%; Score 34; DB 9; Length 99;
Best Local Similarity 66.7%; Pred. No. 8.4; Mismatches 6; Indels 1; Gaps 0;
Matches 6; Conservative 2;

Qy 1 MLDLOPETT 9
Db 12 VLDLQPEAT 20

RESULT 20
US-11-188-298-3960
; Sequence 3960, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 3960
; LENGTH: 324
; TYPE: PRT
; ORGANISM: Neisseria meningitidis MC58
US-11-188-298-3960

Query Match 73.9%; Score 34; DB 11; Length 324;
Best Local Similarity 85.7%; Pred. No. 32; Mismatches 6; Indels 0; Gaps 0;
Matches 6; Conservative 1;

Qy 1 MLDLOPE 7
Db 293 MLDLOPE 299

```
RESULT 21
US-11-055-822-68
; Sequence 68, Application US/11055822
; Publication No. US20050260707A1
; GENERAL INFORMATION:
; APPLICANT: Pompejus, Markus
; APPLICANT: Kroege, Burkhard
; APPLICANT: Schroder, Hartwig
; APPLICANT: Zeidler, Oskar
; APPLICANT: Habedauer, Gregor
; TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING
; FILE REFERENCE: BGI-121CPCN
; CURRENT APPLICATION NUMBER: US/11/055,822
; CURRENT FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: 09/606,740
; PRIOR FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: 60/141,031
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: 60/142,101
; PRIOR FILING DATE: 1999-07-02
; PRIOR APPLICATION NUMBER: 60/148,613
; PRIOR FILING DATE: 1999-08-12
; PRIOR APPLICATION NUMBER: 60/187,970
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: DE 19930476,9
; PRIOR FILING DATE: 1999-07-01
; PRIOR APPLICATION NUMBER: DE 19931415,2
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931418,7
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931419,5
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931420,9
; PRIOR FILING DATE: 1999-07-08
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1158
; SEQ ID NO 68
; LENGTH: 468
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-11-055-822-68

Query Match          73.9%; Score 34; DB 11; Length 468;
Best Local Similarity 66.7%; Pred. No. 48;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      1 MLDQPERT 9
Db      345 VIDQPERT 353

RESULT 22
US-11-239-674-66
; Sequence 66, Application US/11239674
; Publication No. US20060084152A1
; GENERAL INFORMATION:
; APPLICANT: Pompejus, Markus
; APPLICANT: Kroege, Burkhard
; APPLICANT: Schroder, Hartwig
; APPLICANT: Zeidler, Oskar
; APPLICANT: Habedauer, Gregor
; APPLICANT: Kim, Jun-Won
; APPLICANT: Lee, Heung-Schick
; APPLICANT: Hwang, Byung-Joon
; TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING
; FILE REFERENCE: BGI-121CPC2
; CURRENT APPLICATION NUMBER: US/11/239,674
; CURRENT FILING DATE: 2005-09-28
; PRIOR APPLICATION NUMBER: US/09/746,660
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; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 09/606740
; PRIOR FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: 09/603124
; PRIOR FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: 60/141031
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: 60/142101
; PRIOR FILING DATE: 1999-07-02
; PRIOR APPLICATION NUMBER: 60/148613
; PRIOR FILING DATE: 1999-08-12
; PRIOR APPLICATION NUMBER: 60/187970
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: DE 19931420,9
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 125
; SOFTWARE: Patentin Vers. 2.0
; SEQ ID NO 66
; LENGTH: 468
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-11-239-674-66

Query Match          73.9%; Score 34; DB 11; Length 468;
Best Local Similarity 66.7%; Pred. No. 48;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      1 MLDQPERT 9
Db      345 VIDQPERT 353

RESULT 23
US-11-087-099-4252
; Sequence 4252, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 4252
; LENGTH: 510
; TYPE: PRT
; ORGANISM: Nicotiana tabacum
US-11-087-099-4252

Query Match          73.9%; Score 34; DB 11; Length 510;
Best Local Similarity 66.7%; Pred. No. 53;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      1 LLDQPERTS 9
Db      3 LLDQPERTS 11

RESULT 24
US-11-186-298-14373
; Sequence 14373, Application US/11186298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/186,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 14373
; LENGTH: 510
```

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; TYPE: PRT
; ORGANISM: Nicotiana tabacum
US-11-188-298-14373

Query Match
Best Local Similarity 73.9%; Score 34; DB 11; Length 510;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MIDLQPE 7
   |||||
Db 3 LIDLQSTS 11

RESULT 25
US-11-087-099-10725
; Sequence 10725, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 10725
; LENGTH: 646
; TYPE: PRT
; ORGANISM: Candida albicans
US-11-087-099-10725

Query Match
Best Local Similarity 73.9%; Score 34; DB 11; Length 646;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MIDLQPE 7
   |||||
Db 66 MIDLQPE 72

RESULT 26
US-11-188-298-9913
; Sequence 9913, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 9913
; LENGTH: 646
; TYPE: PRT
; ORGANISM: Candida albicans
US-11-188-298-9913

Query Match
Best Local Similarity 73.9%; Score 34; DB 11; Length 646;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MIDLQPE 7
   |||||
Db 66 MIDLQPE 72

RESULT 27
US-11-087-099-8952
; Sequence 8952, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
```

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; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 8952
; LENGTH: 698
; TYPE: PRT
; ORGANISM: Candida albicans
US-11-087-099-8952

Query Match
Best Local Similarity 73.9%; Score 34; DB 11; Length 698;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MIDLQPE 7
   |||||
Db 66 MIDLQPE 72

RESULT 28
US-11-087-099-9341
; Sequence 9341, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 9341
; LENGTH: 698
; TYPE: PRT
; ORGANISM: Candida albicans
US-11-087-099-9341

Query Match
Best Local Similarity 73.9%; Score 34; DB 11; Length 698;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MIDLQPE 7
   |||||
Db 66 MIDLQPE 72

RESULT 29
US-11-188-298-8685
; Sequence 8685, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 8685
; LENGTH: 698
; TYPE: PRT
; ORGANISM: Candida albicans
US-11-188-298-8685

Query Match
Best Local Similarity 73.9%; Score 34; DB 11; Length 698;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MIDLQPE 7
   |||||
Db 66 MIDLQPE 72
```



```
RESULT 30
US-11-188-298-19289
; Sequence 19289, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; PRIOR FILING DATE: 2005-07-22, 978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 19289
; LENGTH: 698
; TYPE: PRT
; ORGANISM: Candida albicans
US-11-188-298-19289

Query Match          73.9%; Score 34; DB 11; Length 698;
Best Local Similarity 85.7%; Pred. No. 75;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 MLDLQPE 7
Db      66 MDLQPE 72

RESULT 31
US-10-242-586-94
; Sequence 94, Application US/10242586
; Publication No. US20060073548A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Eaton, Dan
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe
; APPLICANT: Watanabe, Colin
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; APPLICANT: Fong, Sherman
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3630R1C21
; CURRENT APPLICATION NUMBER: US/10/242,586
; CURRENT FILING DATE: 2002-09-11
; PRIOR APPLICATION NUMBER: 10/197942
; PRIOR FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: 60/059114
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/063046
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/065027
; PRIOR FILING DATE: 1997-11-10
; PRIOR APPLICATION NUMBER: 60/079689
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/086478
; PRIOR FILING DATE: 1998-05-22
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/089801
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/090557
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090689
; PRIOR FILING DATE: 1998-06-25
; Remaining Prior Application data removed - See file wrapper or PALM.
; NUMBER OF SEQ ID NOS: 116
```

```
; SEQ ID NO 94
; LENGTH: 847
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-242-586-94

Query Match          71.7%; Score 33; DB 9; Length 847;
Best Local Similarity 77.8%; Pred. No. 1.5e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 MLDLQPE 9
Db      565 MDLQPE 573

RESULT 32
US-10-242-902-94
; Sequence 94, Application US/10242902
; Publication No. US20060073549A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Eaton, Dan
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe
; APPLICANT: Watanabe, Colin
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; APPLICANT: Fong, Sherman
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3630R1C54
; CURRENT APPLICATION NUMBER: US/10/242,902
; CURRENT FILING DATE: 2002-09-13
; PRIOR APPLICATION NUMBER: 10/197942
; PRIOR FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: 60/059114
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/063046
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/065027
; PRIOR FILING DATE: 1997-11-10
; PRIOR APPLICATION NUMBER: 60/079689
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/086478
; PRIOR FILING DATE: 1998-05-22
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/089801
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/090557
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090689
; PRIOR FILING DATE: 1998-06-25
; Remaining Prior Application data removed - See file wrapper or PALM.
; NUMBER OF SEQ ID NOS: 116
; SEQ ID NO 94
; LENGTH: 847
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-242-902-94

Query Match          71.7%; Score 33; DB 9; Length 847;
Best Local Similarity 77.8%; Pred. No. 1.5e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 MLDLQPE 9
Db      565 MDLQPE 573
```

```
RESULT 33
US-10-243-116-94
; Sequence 94, Application US/10243116
; Publication No. US20060073550A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Baton, Dan
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austen
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe
; APPLICANT: Watanabe, Colin
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; APPLICANT: Fong, Sherman
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3630R1C58
; CURRENT FILING DATE: 2002-09-13
; PRIOR APPLICATION NUMBER: US/10/243,116
; PRIOR FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: 60/059114
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/063046
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/065027
; PRIOR FILING DATE: 1997-11-10
; PRIOR APPLICATION NUMBER: 60/079689
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/086478
; PRIOR FILING DATE: 1998-05-22
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/089801
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/090557
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090689
; PRIOR FILING DATE: 1998-06-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 116
; SEQ ID NO 94
; LENGTH: 847
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-243-116-94

Query Match          71.7%; Score 33; DB 9; Length 847;
Best Local Similarity 77.8%; Pred. No. 1.5e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 MDL0PETT 9
Db      565 MDL0PETT 573

RESULT 34
US-10-243-136-94
; Sequence 94, Application US/10243136
; Publication No. US20060074228A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Baton, Dan
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austen
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe
```

```
; APPLICANT: Watanabe, Colin
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; APPLICANT: Fong, Sherman
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3630R1C32
; CURRENT FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: 10/197942
; PRIOR FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: 60/059114
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/063046
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/065027
; PRIOR FILING DATE: 1997-11-10
; PRIOR APPLICATION NUMBER: 60/079689
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/086478
; PRIOR FILING DATE: 1998-05-22
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/089801
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/090557
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090689
; PRIOR FILING DATE: 1998-06-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 116
; SEQ ID NO 94
; LENGTH: 847
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-243-136-94

Query Match          71.7%; Score 33; DB 9; Length 847;
Best Local Similarity 77.8%; Pred. No. 1.5e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 MDL0PETT 9
Db      565 MDL0PETT 573

RESULT 35
US-10-243-169-94
; Sequence 94, Application US/10243189
; Publication No. US20060074033A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Baton, Dan
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austen
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe
; APPLICANT: Watanabe, Colin
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; APPLICANT: Fong, Sherman
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3630R1C44
; CURRENT FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: 10/197942
; PRIOR FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: 60/059114
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/063046
```

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; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/065027
; PRIOR FILING DATE: 1997-11-10
; PRIOR APPLICATION NUMBER: 60/079689
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/086478
; PRIOR FILING DATE: 1998-05-22
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/089801
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/090557
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090689
; PRIOR FILING DATE: 1998-06-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 116
; SEQ ID NO 94
; LENGTH: 847
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-243-189-94
```

```

Query Match      71.7%; Score 33; DB 9; Length 847;
Best Local Similarity 77.8%; Pred. No. 1.5e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```

QY      1 MDLQPEPT 9
Db      565 MKDLLPEPT 573
```

```

RESULT 36
US-10-243-215-94
; Sequence 94, Application US/10243215
; Publication No. US20060073551A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Baton, Dan
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe
; APPLICANT: Watanabe, Colin
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; APPLICANT: Fong, Sherman
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3630RIC27
; CURRENT APPLICATION NUMBER: US/10/243, 215
; PRIOR FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: 10/197942
; PRIOR FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: 60/059114
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/063046
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/065027
; PRIOR FILING DATE: 1997-11-10
; PRIOR APPLICATION NUMBER: 60/079689
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/086478
; PRIOR FILING DATE: 1998-05-22
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/089801
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/090557
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090689
```

```

; PRIOR FILING DATE: 1998-06-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 116
; SEQ ID NO 94
; LENGTH: 847
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-243-215-94
```

```

Query Match      71.7%; Score 33; DB 9; Length 847;
Best Local Similarity 77.8%; Pred. No. 1.5e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```

QY      1 MDLQPEPT 9
Db      565 MKDLLPEPT 573
```

```

RESULT 37
US-10-243-236-94
; Sequence 94, Application US/10243236
; Publication No. US20060073552A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Baton, Dan
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe
; APPLICANT: Watanabe, Colin
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; APPLICANT: Fong, Sherman
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3630RIC35
; CURRENT APPLICATION NUMBER: US/10/243, 236
; PRIOR FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: 10/197942
; PRIOR FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: 60/059114
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/063046
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/065027
; PRIOR FILING DATE: 1997-11-10
; PRIOR APPLICATION NUMBER: 60/079689
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/086478
; PRIOR FILING DATE: 1998-05-22
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/089801
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/090557
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090689
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 116
; SEQ ID NO 94
; LENGTH: 847
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-243-236-94
```

```

Query Match      71.7%; Score 33; DB 9; Length 847;
Best Local Similarity 77.8%; Pred. No. 1.5e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```

QY      1 MDLQPEPT 9
```

```
Db          565 MKDLBPETT 573

RESULT 38
US-10-243-298-94
; Sequence 94, Application US/10243298
; Publication No. US20060073553A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Baton, Dan
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Auecia
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe
; APPLICANT: Watanbe, Colin
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; APPLICANT: Fong, Sherman
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3630R1C49
; CURRENT APPLICATION NUMBER: US/10/243,298
; CURRENT FILING DATE: 2002-09-13
; PRIOR APPLICATION NUMBER: 10/197942
; PRIOR FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: 60/059114
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/063046
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/065027
; PRIOR FILING DATE: 1997-11-10
; PRIOR APPLICATION NUMBER: 60/079689
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/086478
; PRIOR FILING DATE: 1998-05-22
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/089801
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/090557
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090689
; PRIOR FILING DATE: 1998-06-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 116
; SEQ ID NO 94
; LENGTH: 847
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-243-298-94

Query Match          71.7%; Score 33; DB 9; Length 847;
Best Local Similarity 77.8%; Pred. No. 1.5e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
APPLICANT: Gurney, Auecia
APPLICANT: Smith, Victoria
APPLICANT: Stephan, Jean-Philippe
APPLICANT: Watanbe, Colin
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
APPLICANT: Fong, Sherman
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3630R1C42
; CURRENT APPLICATION NUMBER: US/10/243,304
; CURRENT FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: 10/197942
; PRIOR FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: 60/059114
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/063046
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/065027
; PRIOR FILING DATE: 1997-11-10
; PRIOR APPLICATION NUMBER: 60/079689
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/086478
; PRIOR FILING DATE: 1998-05-22
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/089801
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/090557
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090689
; PRIOR FILING DATE: 1998-06-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 116
; SEQ ID NO 94
; LENGTH: 847
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-243-304-94

Query Match          71.7%; Score 33; DB 9; Length 847;
Best Local Similarity 77.8%; Pred. No. 1.5e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```

; PRIOR APPLICATION NUMBER: 60/059114
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/063046
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/065027
; PRIOR FILING DATE: 1997-11-10
; PRIOR APPLICATION NUMBER: 60/079689
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/086478
; PRIOR FILING DATE: 1998-05-22
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/089801
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/090557
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090689
; PRIOR FILING DATE: 1998-06-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 116
; SEQ ID NO 94
; LENGTH: 847
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-243-338-94
```

```

Query Match      71.7%; Score 33; DB 9; Length 847;
Best Local Similarity 77.8%; Pred. No. 1.5e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
Qy      1 MLDLPETT 9
Db      565 MKDLPEPT 573
```

```

RESULT 41
US-10-243-345-94
; Sequence 94, Application US/10243345
; Publication No. US20060073555A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Eaton, Dan
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Guiney, Austin
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe
; APPLICANT: Watanabe, Colin
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; APPLICANT: Fong, Sherman
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3630R1C33
; CURRENT APPLICATION NUMBER: US/10/243.345
; CURRENT FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: 10/197942
; PRIOR FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: 60/059114
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/063046
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/065027
; PRIOR FILING DATE: 1997-11-10
; PRIOR APPLICATION NUMBER: 60/079689
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/086478
; PRIOR FILING DATE: 1998-05-22
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/089801
; PRIOR FILING DATE: 1998-06-18
```

```

; PRIOR APPLICATION NUMBER: 60/090557
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090689
; PRIOR FILING DATE: 1998-06-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 116
; SEQ ID NO 94
; LENGTH: 847
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-243-345-94
```

```

Query Match      71.7%; Score 33; DB 9; Length 847;
Best Local Similarity 77.8%; Pred. No. 1.5e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
Qy      1 MLDLPETT 9
Db      565 MKDLPEPT 573
```

```

RESULT 42
US-10-243-357-94
; Sequence 94, Application US/10243357
; Publication No. US20060073556A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Eaton, Dan
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Guiney, Austin
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe
; APPLICANT: Watanabe, Colin
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; APPLICANT: Fong, Sherman
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3630R1C55
; CURRENT APPLICATION NUMBER: US/10/243.357
; CURRENT FILING DATE: 2002-09-13
; PRIOR APPLICATION NUMBER: 10/197942
; PRIOR FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: 60/059114
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/063046
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/065027
; PRIOR FILING DATE: 1997-11-10
; PRIOR APPLICATION NUMBER: 60/079689
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/086478
; PRIOR FILING DATE: 1998-05-22
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/089801
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/090557
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090689
; PRIOR FILING DATE: 1998-06-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 116
; SEQ ID NO 94
; LENGTH: 847
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-243-357-94
```

```

Query Match      71.7%; Score 33; DB 9; Length 847;
Best Local Similarity 77.8%; Pred. No. 1.5e+02;
```

Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 1 MLDLPETT 9
| | | | |
Db 565 MKDLPEETT 573

RESULT 43

US-10-245-083-94
; Sequence 94, Application US/10245083
; Publication No. US20060073557A1
; GENERAL INFORMATION:

APPLICANT: Baker, Kevin
APPLICANT: Eaton, Dan
APPLICANT: Filvaroff, Ellen
APPLICANT: Goddard, Audrey
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin
APPLICANT: Smith, Victoria
APPLICANT: Stephan, Jean-Philippe
APPLICANT: Matande, Colin
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
APPLICANT: Fong, Sherman
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3630R1C91
CURRENT APPLICATION NUMBER: US/10/245,083
CURRENT FILING DATE: 2002-09-16
PRIOR APPLICATION NUMBER: 10/197942
PRIOR FILING DATE: 2002-07-18
PRIOR APPLICATION NUMBER: 60/059114
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/063046
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/065027
PRIOR FILING DATE: 1997-11-10
PRIOR APPLICATION NUMBER: 60/079689
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/086478
PRIOR FILING DATE: 1998-05-22
PRIOR APPLICATION NUMBER: 60/087607
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/089801
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/090557
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090689
PRIOR FILING DATE: 1998-06-25
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 116
SEQ ID NO 94
LENGTH: 847
TYPE: PRT
ORGANISM: Homo Sapien
US-10-245-083-94

US-10-245-083-94

Query Match 71.7%; Score 33; DB 9; Length 847;
Best Local Similarity 77.8%; Pred. No. 1.5e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 1 MLDLPETT 9
| | | | |
Db 565 MKDLPEETT 573

RESULT 44

US-10-247-015-94
; Sequence 94, Application US/10247015
; Publication No. US20060073558A1
; GENERAL INFORMATION:

APPLICANT: Baker, Kevin
APPLICANT: Eaton, Dan

APPLICANT: Filvaroff, Ellen
APPLICANT: Goddard, Audrey
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin
APPLICANT: Smith, Victoria
APPLICANT: Stephan, Jean-Philippe
APPLICANT: Matande, Colin
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
APPLICANT: Fong, Sherman

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3630R1C118
CURRENT APPLICATION NUMBER: US/10/247,015
CURRENT FILING DATE: 2002-09-18
PRIOR APPLICATION NUMBER: 10/197942
PRIOR FILING DATE: 2002-07-18
PRIOR APPLICATION NUMBER: 60/059114
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/063046
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/065027
PRIOR FILING DATE: 1997-11-10
PRIOR APPLICATION NUMBER: 60/079689
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/086478
PRIOR FILING DATE: 1998-05-22
PRIOR APPLICATION NUMBER: 60/087607
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/089801
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/090557
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090689
PRIOR FILING DATE: 1998-06-25
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 116
SEQ ID NO 94
LENGTH: 847
TYPE: PRT
ORGANISM: Homo Sapien
US-10-247-015-94

Query Match 71.7%; Score 33; DB 9; Length 847;
Best Local Similarity 77.8%; Pred. No. 1.5e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 1 MLDLPETT 9
| | | | |
Db 565 MKDLPEETT 573

RESULT 45

US-11-087-099-11582
; Sequence 11582, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:

APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: Genes and Uses for Plant Improvement
FILE REFERENCE: 38-21(53450)B EP
CURRENT APPLICATION NUMBER: US/11/087,099
CURRENT FILING DATE: 2005-03-22
NUMBER OF SEQ ID NOS: 12464
SEQ ID NO 11582
LENGTH: 253
TYPE: PRT
ORGANISM: Arabidopsis thaliana

US-11-087-099-11582

Query Match 69.6%; Score 32; DB 11; Length 253;
Best Local Similarity 66.7%; Pred. No. 60;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 MLDLOPET 9
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Db 40 VLDLAPETS 48

RESULT 46

US-11-045-004-1264
Sequence 1264, Application US/11045004
Publication No. US20060078901A1
GENERAL INFORMATION:
APPLICANT: BUCHRIEGER, CARMEN
APPLICANT: FRANGEUL, LIONEL
APPLICANT: COUVE, ELISABETH
APPLICANT: RUSNIOK, CHRISTOPHE
APPLICANT: FSIHL, HAFIDA
APPLICANT: DEHOUX, PIERRE
APPLICANT: DUSBURGET, OLIVIER
APPLICANT: CHERTOUANI, FARID
APPLICANT: NEJARI, HAFED
APPLICANT: GLASER, PHILIPPE
APPLICANT: KUNST, FRANCK
APPLICANT: COSSART, PASCALE
APPLICANT: DANIELS, JUSTIN
APPLICANT: GOEBEL, WERNER
APPLICANT: KREFT, JURGEN
APPLICANT: KUHN, MICHAEL
APPLICANT: NG, EVA
APPLICANT: VAZQUEZ-BOLAND, ANTONIO
APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
APPLICANT: GARRIDO-GARCIA, PATRICIA
APPLICANT: TIERREZ-MARTINEZ, ALBERTO
APPLICANT: AMEND, ALEXANDRA
APPLICANT: CHAKRABORTY, TRINAD
APPLICANT: DOMANN, EUGEN
APPLICANT: HAIN, THORSTEN
APPLICANT: BERCHE, PATRICK
APPLICANT: CHARBIT, ALAIN
APPLICANT: DURANT, LIONEL
APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
APPLICANT: BAQUERO, FERNANDO
APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
APPLICANT: GOMEZ-LOPEZ, NURIA
APPLICANT: MADUENIO, ENCARN
APPLICANT: PABLOS, BETRIZ DE
APPLICANT: WEHLAND, JURGEN
APPLICANT: KARST, UWE
APPLICANT: ENTIAN, KARL-DIETER
APPLICANT: HAUPT, JORG
APPLICANT: ROSE, MATTHIAS
APPLICANT: VOSS, HANUT
TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
FILE REFERENCE: 05394.0018-02
CURRENT FILING DATE: 2005-01-28
PRIOR APPLICATION NUMBER: 10/637,657
PRIOR FILING DATE: 2003-08-11
PRIOR APPLICATION NUMBER: 10/257,023
PRIOR FILING DATE: 2002-10-08
PRIOR APPLICATION NUMBER: PCT/FR01/01118
PRIOR FILING DATE: 2001-04-11
PRIOR APPLICATION NUMBER: FR 00/04,629
PRIOR FILING DATE: 2000-04-11
NUMBER OF SEQ ID NOS: 2854
SOFTWARE: PatentIn version 3.3
SEQ ID NO 1264
LENGTH: 276
TYPE: PRT
ORGANISM: Listeria monocytogenes
US-11-045-004-1264

Query Match 69.6%; Score 32; DB 11; Length 276;
Best Local Similarity 85.7%; Pred. No. 66;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLDLOPE 7
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Db 47 MLDLPE 53

RESULT 47

US-11-045-004-391
Sequence 391, Application US/11045004
Publication No. US20060078901A1
GENERAL INFORMATION:
APPLICANT: BUCHRIEGER, CARMEN
APPLICANT: FRANGEUL, LIONEL
APPLICANT: COUVE, ELISABETH
APPLICANT: RUSNIOK, CHRISTOPHE
APPLICANT: FSIHL, HAFIDA
APPLICANT: DEHOUX, PIERRE
APPLICANT: DUSBURGET, OLIVIER
APPLICANT: CHERTOUANI, FARID
APPLICANT: NEJARI, HAFED
APPLICANT: GLASER, PHILIPPE
APPLICANT: KUNST, FRANCK
APPLICANT: COSSART, PASCALE
APPLICANT: DANIELS, JUSTIN
APPLICANT: GOEBEL, WERNER
APPLICANT: KREFT, JURGEN
APPLICANT: KUHN, MICHAEL
APPLICANT: NG, EVA
APPLICANT: VAZQUEZ-BOLAND, ANTONIO
APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
APPLICANT: GARRIDO-GARCIA, PATRICIA
APPLICANT: TIERREZ-MARTINEZ, ALBERTO
APPLICANT: AMEND, ALEXANDRA
APPLICANT: CHAKRABORTY, TRINAD
APPLICANT: DOMANN, EUGEN
APPLICANT: HAIN, THORSTEN
APPLICANT: BERCHE, PATRICK
APPLICANT: CHARBIT, ALAIN
APPLICANT: DURANT, LIONEL
APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
APPLICANT: BAQUERO, FERNANDO
APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
APPLICANT: GOMEZ-LOPEZ, NURIA
APPLICANT: MADUENIO, ENCARN
APPLICANT: PABLOS, BETRIZ DE
APPLICANT: WEHLAND, JURGEN
APPLICANT: KARST, UWE
APPLICANT: ENTIAN, KARL-DIETER
APPLICANT: HAUPT, JORG
APPLICANT: ROSE, MATTHIAS
APPLICANT: VOSS, HANUT
TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
FILE REFERENCE: 05394.0018-02
CURRENT FILING DATE: 2005-01-28
PRIOR APPLICATION NUMBER: 10/637,657
PRIOR FILING DATE: 2003-08-11
PRIOR APPLICATION NUMBER: 10/257,023
PRIOR FILING DATE: 2002-10-08
PRIOR APPLICATION NUMBER: PCT/FR01/01118
PRIOR FILING DATE: 2001-04-11
PRIOR APPLICATION NUMBER: FR 00/04,629
PRIOR FILING DATE: 2000-04-11
NUMBER OF SEQ ID NOS: 2854
SOFTWARE: PatentIn version 3.3
SEQ ID NO 391
LENGTH: 291
TYPE: PRT
ORGANISM: Listeria monocytogenes
US-11-045-004-391

Query Match 69.6%; Score 32; DB 11; Length 291;
Best Local Similarity 100.0%; Pred. No. 70;

Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3 MDLDPET 8
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DB 225 DLDPET 230

RESULT 48
US-10-493-909-77
; Sequence 77, Application US/10493909
; Publication No. US20060015969A1
; GENERAL INFORMATION:
; APPLICANT: LARRICK, JAMES W.
; APPLICANT: WYCOFF, KEITH L.
; TITLE OF INVENTION: NOVEL IMMUNOADHESINS FOR TREATING AND PREVENTING TOXICITY
; FILE REFERENCE: 41514-20004.01
; CURRENT APPLICATION NUMBER: US/10/493,909
; PRIOR FILING DATE: 2004-04-26
; PRIOR APPLICATION NUMBER: PCT/US01/13932
; PRIOR FILING DATE: 2001-04-28
; PRIOR APPLICATION NUMBER: 60/200,298
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 101
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 77
; LENGTH: 548
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-493-909-77

Query Match 69.6%; Score 32; DB 9; Length 548;
Best Local Similarity 85.7%; Pred. No. 1.4e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MDLDPET 7
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DB 114 ILDPET 120

RESULT 49
US-10-493-909-78
; Sequence 78, Application US/10493909
; Publication No. US20060015969A1
; GENERAL INFORMATION:
; APPLICANT: LARRICK, JAMES W.
; APPLICANT: WYCOFF, KEITH L.
; TITLE OF INVENTION: NOVEL IMMUNOADHESINS FOR TREATING AND PREVENTING TOXICITY
; FILE REFERENCE: 41514-20004.01
; CURRENT APPLICATION NUMBER: US/10/493,909
; PRIOR FILING DATE: 2004-04-26
; PRIOR APPLICATION NUMBER: PCT/US01/13932
; PRIOR FILING DATE: 2001-04-28
; PRIOR APPLICATION NUMBER: 60/200,298
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 101
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 78
; LENGTH: 548
; TYPE: PRT
; ORGANISM: Rattus norvegicus
US-10-493-909-78

Query Match 69.6%; Score 32; DB 9; Length 548;
Best Local Similarity 85.7%; Pred. No. 1.4e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MDLDPET 7
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DB 114 ILDPET 120

RESULT 50
US-10-530-061-1745
; Sequence 1745, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1745
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1745

Query Match 67.4%; Score 31; DB 9; Length 15;
Best Local Similarity 66.7%; Pred. No. 3.9;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 MDLDPET 9
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DB 4 ILDPET 12

Search completed: May 5, 2006, 08:40:37
Job time : 10.4 secs

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OM protein - protein search, using SW model

Run on: May 5, 2006, 03:13:35 ; Search time 21 Seconds
(without alignments)
35.432 Million cell updates/sec

Title: US-08-170-344-16

Perfect score: 48

Sequence: 1 RLCVQSTRV 9

Scoring table:

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Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

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1: Issued Patents AA.*
2: /cgn2_6/ptodata/1/1aa/5-COMB.pep.*
3: /cgn2_6/ptodata/1/1aa/6-COMB.pep.*
4: /cgn2_6/ptodata/1/1aa/H-COMB.pep.*
5: /cgn2_6/ptodata/1/1aa/PCITUS-COMB.pep.*
6: /cgn2_6/ptodata/1/1aa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	48	100.0	9	2	US-09-574-749B-41
2	48	100.0	10	2	US-10-365-908-17
3	48	100.0	17	2	US-08-075-541D-48
4	48	100.0	19	2	US-08-075-541D-39
5	48	100.0	19	2	US-09-000-003A-8
6	48	100.0	19	2	US-09-405-986A-9
7	48	100.0	20	2	US-09-828-645-4
8	48	100.0	20	2	US-09-980-177A-74
9	48	100.0	21	1	US-08-934-915-49
10	48	100.0	21	1	US-08-934-915-156
11	48	100.0	25	2	US-08-075-541D-47
12	48	100.0	30	1	US-08-934-915-53
13	48	100.0	30	1	US-09-486-394-4
14	48	100.0	30	2	US-08-406-248-6
15	48	100.0	98	2	US-08-075-541D-42
16	48	100.0	98	2	US-09-382-616A-1
17	48	100.0	98	2	US-08-944-368A-4
18	48	100.0	98	2	US-09-820-764-4
19	48	100.0	98	2	US-09-613-303-8
20	48	100.0	98	2	US-09-586-420-19
21	48	100.0	98	2	US-09-986-118A-4
22	48	100.0	98	2	US-09-728-466-1
23	48	100.0	98	2	US-09-824-017-4
24	48	100.0	98	2	US-10-267-311-8
25	48	100.0	98	2	US-10-201-764-3
26	48	100.0	98	2	US-09-637-746-3
27	48	100.0	98	2	US-09-501-097A-7

28	48	100.0	98	2	US-09-980-523A-12	Sequence 12, Appl
29	48	100.0	121	2	US-09-613-303-12	Sequence 12, Appl
30	48	100.0	121	2	US-10-267-311-12	Sequence 12, Appl
31	48	100.0	172	2	US-08-860-165-14	Sequence 14, Appl
32	48	100.0	172	2	US-09-359-382-14	Sequence 14, Appl
33	48	100.0	185	2	US-09-462-993-2	Sequence 2, Appl1
34	48	100.0	198	2	US-09-613-303-35	Sequence 35, Appl
35	48	100.0	198	2	US-10-267-311-35	Sequence 35, Appl
36	48	100.0	220	2	US-09-485-885-1	Sequence 1, Appl1
37	48	100.0	220	2	US-09-485-885-8	Sequence 8, Appl1
38	48	100.0	230	2	US-09-485-885-12	Sequence 12, Appl
39	48	100.0	253	1	US-08-459-818-20	Sequence 20, Appl
40	48	100.0	253	1	US-08-889-666-20	Sequence 20, Appl
41	48	100.0	253	1	US-08-465-078-20	Sequence 20, Appl
42	48	100.0	253	1	US-08-725-776-20	Sequence 20, Appl
43	48	100.0	253	1	US-08-488-062-20	Sequence 20, Appl
44	48	100.0	263	1	US-08-117-083-9	Sequence 9, Appl1
45	48	100.0	266	2	US-08-860-165-10	Sequence 10, Appl
46	48	100.0	266	2	US-09-359-382-10	Sequence 10, Appl
47	48	100.0	266	2	US-09-167-309A-1	Sequence 1, Appl1
48	48	100.0	267	2	US-09-501-097A-25	Sequence 25, Appl
49	48	100.0	295	2	US-09-613-303-33	Sequence 33, Appl
50	48	100.0	295	2	US-10-267-311-33	Sequence 33, Appl
51	48	100.0	324	2	US-09-613-303-25	Sequence 25, Appl
52	48	100.0	324	2	US-10-267-311-25	Sequence 25, Appl
53	48	100.0	371	2	US-09-485-885-6	Sequence 6, Appl1
54	48	100.0	390	2	US-09-485-885-14	Sequence 14, Appl
55	48	100.0	420	2	US-09-501-097A-22	Sequence 22, Appl
56	48	100.0	493	2	US-09-613-303-19	Sequence 19, Appl
57	48	100.0	493	2	US-10-267-311-19	Sequence 19, Appl
58	48	100.0	639	2	US-09-613-303-17	Sequence 17, Appl
59	48	100.0	639	2	US-10-267-311-17	Sequence 17, Appl
60	48	100.0	641	2	US-09-613-303-51	Sequence 51, Appl
61	48	100.0	641	2	US-10-267-311-51	Sequence 51, Appl
62	48	100.0	647	2	US-09-613-303-53	Sequence 53, Appl
63	48	100.0	647	2	US-10-267-311-53	Sequence 53, Appl
64	48	100.0	648	2	US-09-613-303-29	Sequence 29, Appl
65	48	100.0	648	2	US-10-267-311-29	Sequence 29, Appl
66	48	100.0	711	2	US-09-613-303-41	Sequence 41, Appl
67	48	100.0	711	2	US-10-267-311-41	Sequence 41, Appl
68	48	100.0	723	2	US-09-501-097A-20	Sequence 20, Appl
69	48	100.0	724	2	US-09-613-303-45	Sequence 45, Appl
70	48	100.0	724	2	US-10-267-311-45	Sequence 45, Appl
71	44	91.7	9	1	US-10-365-908-14	Sequence 34, Appl
72	44	91.7	30	1	US-08-934-915-52	Sequence 52, Appl
73	44	89.6	20	2	US-09-980-177A-75	Sequence 75, Appl
74	43	83.3	30	1	US-08-934-915-71	Sequence 71, Appl
75	39	81.2	10	2	US-10-365-908-13	Sequence 13, Appl
76	37	77.1	20	2	US-09-828-645-8	Sequence 8, Appl
77	36	75.0	19	2	US-08-075-541D-38	Sequence 38, Appl
78	35	72.9	222	2	US-09-252-991A-27972	Sequence 27972, A
79	34	70.8	117	2	US-08-487-761-17	Sequence 17, Appl
80	34	70.8	201	2	US-08-679-493A-190	Sequence 190, App
81	34	70.8	1121	2	US-09-252-991A-28551	Sequence 28551, A
82	33	68.8	31	2	US-08-525-559A-15	Sequence 15, Appl
83	33	68.8	50	4	PCT-US91-0242-2	Sequence 8, Appl1
84	33	68.8	50	4	PCT-US91-0242-9	Sequence 9, Appl1
85	33	68.8	100	2	US-09-840-459-27	Sequence 27, Appl
86	33	68.8	100	2	US-09-497-625A-27	Sequence 27, Appl
87	33	68.8	104	2	US-08-881-037-37	Sequence 37, Appl
88	33	68.8	108	2	US-09-513-999C-4205	Sequence 4205, Ap
89	33	68.8	112	1	US-08-606-293-4	Sequence 4, Appl1
90	33	68.8	112	1	US-08-606-293-8	Sequence 8, Appl1
91	33	68.8	112	2	US-09-518-737-4	Sequence 4, Appl1
92	33	68.8	113	2	US-09-233-290-4	Sequence 28, Appl
93	33	68.8	113	2	US-09-233-290-48	Sequence 28, Appl
94	33	68.8	114	1	US-07-947-245-9	Sequence 9, Appl1
95	33	68.8	114	1	US-09-027-449-45	Sequence 45, Appl
96	33	68.8	114	2	US-09-027-449-46	Sequence 46, Appl
97	33	68.8	114	2	US-08-804-444A-45	Sequence 45, Appl
98	33	68.8	114	2	US-08-804-444A-46	Sequence 46, Appl
99	33	68.8	114	2	US-09-026-985-45	Sequence 45, Appl
100	33	68.8	114	2	US-09-026-985-46	Sequence 46, Appl

101	33	68.8	114	2	US-09-121-952A-45	Sequence 45, Appl	174	33	68.8	242	2	US-09-026-985-42	Sequence 42, Appl
102	33	68.8	114	2	US-09-121-952A-46	Sequence 46, Appl	175	33	68.8	242	2	US-09-026-985-51	Sequence 51, Appl
103	33	68.8	114	2	US-09-234-340A-45	Sequence 45, Appl	176	33	68.8	242	2	US-09-026-985-56	Sequence 56, Appl
104	33	68.8	114	2	US-09-234-340A-46	Sequence 46, Appl	177	33	68.8	242	2	US-09-026-985-62	Sequence 62, Appl
105	33	68.8	114	2	US-09-914-695-18	Sequence 18, Appl	178	33	68.8	242	2	US-09-121-952A-42	Sequence 42, Appl
106	33	68.8	114	2	US-09-355-014-45	Sequence 45, Appl	179	33	68.8	242	2	US-09-121-952A-51	Sequence 51, Appl
107	33	68.8	114	2	US-09-355-014-46	Sequence 46, Appl	180	33	68.8	242	2	US-09-121-952A-56	Sequence 56, Appl
108	33	68.8	116	1	US-08-482-882-66	Sequence 66, Appl	181	33	68.8	242	2	US-09-121-952A-62	Sequence 62, Appl
109	33	68.8	116	1	US-08-483-389-66	Sequence 66, Appl	182	33	68.8	242	2	US-09-234-340A-42	Sequence 42, Appl
110	33	68.8	116	1	US-08-487-113D-66	Sequence 66, Appl	183	33	68.8	242	2	US-09-234-340A-51	Sequence 51, Appl
111	33	68.8	116	1	US-08-473-503-66	Sequence 66, Appl	184	33	68.8	242	2	US-09-234-340A-56	Sequence 56, Appl
112	33	68.8	116	1	US-08-483-932-66	Sequence 66, Appl	185	33	68.8	242	2	US-09-234-340A-62	Sequence 62, Appl
113	33	68.8	116	1	US-08-720-420A-66	Sequence 66, Appl	186	33	68.8	242	2	US-09-355-014-42	Sequence 42, Appl
114	33	68.8	116	2	US-08-714-017-66	Sequence 66, Appl	187	33	68.8	242	2	US-09-355-014-51	Sequence 51, Appl
115	33	68.8	116	2	US-08-475-680-66	Sequence 66, Appl	188	33	68.8	242	2	US-09-355-014-56	Sequence 56, Appl
116	33	68.8	125	1	US-08-331-398A-63	Sequence 63, Appl	189	33	68.8	242	2	US-09-355-014-62	Sequence 62, Appl
117	33	68.8	125	1	US-08-331-397B-63	Sequence 63, Appl	190	33	68.8	242	6	5455030-17	Patent No. 5455030
118	33	68.8	125	1	US-08-759-804A-62	Sequence 62, Appl	191	33	68.8	250	1	US-08-392-338A-15	Sequence 15, Appl
119	33	68.8	127	1	US-08-482-882-45	Sequence 45, Appl	192	33	68.8	250	2	US-09-166-750-15	Sequence 15, Appl
120	33	68.8	127	1	US-08-483-389-45	Sequence 45, Appl	193	33	68.8	250	2	US-09-166-093-15	Sequence 15, Appl
121	33	68.8	127	1	US-08-487-113D-45	Sequence 45, Appl	194	33	68.8	250	2	US-09-172-019-15	Sequence 15, Appl
122	33	68.8	127	1	US-08-473-503-45	Sequence 45, Appl	195	33	68.8	250	2	US-09-166-094-15	Sequence 15, Appl
123	33	68.8	127	1	US-08-483-932-45	Sequence 45, Appl	196	33	68.8	250	2	US-09-443-213-15	Sequence 15, Appl
124	33	68.8	127	1	US-08-720-420A-45	Sequence 45, Appl	197	33	68.8	253	1	US-08-392-338A-17	Sequence 17, Appl
125	33	68.8	127	2	US-08-714-017-45	Sequence 45, Appl	198	33	68.8	253	2	US-09-166-750-17	Sequence 17, Appl
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127	33	68.8	131	1	US-08-398-613A-48	Sequence 48, Appl	200	33	68.8	253	2	US-09-172-019-17	Sequence 17, Appl
128	33	68.8	131	1	US-08-398-612A-48	Sequence 48, Appl	201	33	68.8	253	2	US-09-166-094-17	Sequence 17, Appl
129	33	68.8	131	1	US-08-398-611A-48	Sequence 48, Appl	202	33	68.8	253	2	US-09-443-213-17	Sequence 17, Appl
130	33	68.8	131	1	US-08-491-334A-48	Sequence 48, Appl	203	33	68.8	267	2	US-09-419-788-30	Sequence 30, Appl
131	33	68.8	131	2	US-08-589-939-7	Sequence 7, Appl1	204	33	68.8	269	2	US-09-358-321C-32	Sequence 32, Appl
132	33	68.8	131	2	US-09-027-449-35	Sequence 35, Appl	205	33	68.8	331	2	US-09-252-991A-29393	Sequence 29393, A
133	33	68.8	131	2	US-08-804-444A-35	Sequence 35, Appl	206	33	68.8	362	2	US-09-075-215A-18	Sequence 18, Appl
134	33	68.8	131	2	US-09-026-985-35	Sequence 35, Appl	207	33	68.8	378	2	US-09-949-016-10106	Sequence 10106, A
135	33	68.8	131	2	US-09-121-952A-35	Sequence 35, Appl	208	33	68.8	409	2	US-09-075-215A-17	Sequence 17, Appl
136	33	68.8	131	2	US-09-234-340A-35	Sequence 35, Appl	209	33	68.8	580	1	US-08-420-235B-15	Sequence 15, Appl
137	33	68.8	131	2	US-09-355-014-35	Sequence 35, Appl	210	33	68.8	580	2	US-08-793-62A-15	Sequence 15, Appl
138	33	68.8	173	4	PCT-US91-02942-3	Sequence 3, Appl1	211	33	68.8	580	4	PCT-US95-10194-15	Sequence 15, Appl
139	33	68.8	173	4	PCT-US91-02946-3	Sequence 3, Appl1	212	33	68.8	638	2	US-09-070-637-20	Sequence 20, Appl
140	33	68.8	203	3	US-09-270-767-329A5	Sequence 32925, A	213	33	68.8	964	2	US-09-949-016-7A31	Sequence 7A31, Ap
141	33	68.8	218	4	PCT-US94-14106-61	Sequence 48142, A	214	33	68.8	964	2	US-09-949-016-7A3154	Sequence 7A31, Ap
142	33	68.8	219	2	US-09-027-449-72	Sequence 72, Appl	215	33	66.7	110	1	US-08-248-796A-26787	Sequence 26787, A
143	33	68.8	219	2	US-09-026-985-72	Sequence 72, Appl	216	33	66.7	110	1	US-08-244-626-2	Sequence 2, Appl1
144	33	68.8	219	2	US-09-121-952A-72	Sequence 72, Appl	217	33	66.7	111	2	US-09-840-450-11	Sequence 11, Appl
145	33	68.8	219	2	US-09-234-340A-72	Sequence 72, Appl	218	33	66.7	375	1	US-07-803-622E-7	Sequence 7, Appl1
146	33	68.8	219	2	US-09-355-014-72	Sequence 72, Appl	219	33	66.7	421	2	US-07-803-622E-9	Sequence 9, Appl1
147	33	68.8	238	1	US-08-324-591-12	Sequence 12, Appl	220	33	66.7	421	2	US-09-270-767-3A159	Sequence 3A159, A
148	33	68.8	238	1	US-08-392-338A-12	Sequence 12, Appl	221	33	66.7	421	2	US-09-270-767-49376	Sequence 49376, A
149	33	68.8	238	1	US-08-926-789-12	Sequence 12, Appl	222	33	66.7	741	2	US-09-107-533A-5001	Sequence 5001, Ap
150	33	68.8	238	1	US-08-926-789-12	Sequence 12, Appl	223	33	66.7	30	1	US-08-934-915-76	Sequence 76, Appl
151	33	68.8	238	2	US-09-166-093-21	Sequence 21, Appl	224	33	66.7	52	2	US-09-513-999C-5209	Sequence 5209, Ap
152	33	68.8	238	2	US-09-166-093-21	Sequence 21, Appl	225	33	66.7	53	2	US-09-513-999C-7776	Sequence 7776, Ap
153	33	68.8	238	2	US-09-172-019-21	Sequence 21, Appl	226	33	66.7	70	2	US-09-205-285-971	Sequence 971, App
154	33	68.8	238	2	US-09-166-094-21	Sequence 21, Appl	227	33	66.7	70	2	US-10-004-860-971	Sequence 971, App
155	33	68.8	238	2	US-09-443-213-21	Sequence 21, Appl	228	33	66.7	100	2	US-09-840-459-23	Sequence 23, Appl
156	33	68.8	239	4	PCT-US93-11138-12	Sequence 12, Appl	229	33	66.7	148	2	US-09-497-625A-23	Sequence 23, Appl
157	33	68.8	240	1	US-08-392-338A-11	Sequence 11, Appl	230	33	66.7	151	2	US-10-104-04-2971	Sequence 2971, Ap
158	33	68.8	240	2	US-09-166-750-11	Sequence 11, Appl	231	33	66.7	151	2	US-09-270-767-4A120	Sequence 4A120, A
159	33	68.8	240	2	US-09-166-093-11	Sequence 11, Appl	232	33	66.7	167	1	US-08-441-629-17	Sequence 17, Appl
160	33	68.8	240	2	US-09-172-019-11	Sequence 11, Appl	233	33	66.7	167	2	US-08-776-207-17	Sequence 17, Appl
161	33	68.8	240	2	US-09-166-094-11	Sequence 11, Appl	234	33	66.7	167	2	US-09-507-773-17	Sequence 17, Appl
162	33	68.8	240	2	US-09-443-213-11	Sequence 11, Appl	235	33	66.7	167	2	US-10-016-447-17	Sequence 17, Appl
163	33	68.8	242	1	US-08-398-613A-56	Sequence 56, Appl	236	33	66.7	167	4	PCT-US95-09112-17	Sequence 17, Appl
164	33	68.8	242	1	US-08-398-612A-56	Sequence 56, Appl	237	33	66.7	174	2	US-09-270-767-33070	Sequence 33070, A
165	33	68.8	242	1	US-08-398-611A-56	Sequence 56, Appl	238	33	66.7	174	2	US-09-270-767-4A8287	Sequence 4A8287, A
166	33	68.8	242	1	US-08-491-334A-56	Sequence 56, Appl	239	33	66.7	323	2	US-09-902-540-13235	Sequence 13235, A
167	33	68.8	242	2	US-09-027-449-42	Sequence 42, Appl	240	33	66.7	374	2	US-09-540-236-3015	Sequence 3015, Ap
168	33	68.8	242	2	US-09-027-449-51	Sequence 51, Appl	241	33	66.7	385	2	US-09-252-991A-27112	Sequence 27112, A
169	33	68.8	242	2	US-09-027-449-56	Sequence 56, Appl	242	33	66.7	448	2	US-09-198-452A-370	Sequence 370, App
170	33	68.8	242	2	US-09-027-449-62	Sequence 62, Appl	243	33	66.7	451	2	US-09-438-185A-354	Sequence 354, App
171	33	68.8	242	2	US-08-804-444A-42	Sequence 42, Appl	244	33	62.5	9	2	US-09-400-564-5	Sequence 5, Appl1
172	33	68.8	242	2	US-08-804-444A-51	Sequence 51, Appl	245	33	62.5	9	2	US-10-365-908-15	Sequence 15, Appl
173	33	68.8	242	2	US-08-804-444A-56	Sequence 56, Appl	246	33	62.5	10	2	US-08-847-844A-51	Sequence 51, Appl

247	30	62.5	12	2	US-09-400-564-3	Sequence 3, Appl1	320	30	62.5	673	1	US-08-577-492-35	Sequence 35, Appl1
248	30	62.5	13	2	US-09-400-564-2	Sequence 2, Appl1	321	30	62.5	673	1	US-08-474-379C-63	Sequence 63, Appl1
249	30	62.5	14	2	US-09-400-564-1	Sequence 1, Appl1	322	30	62.5	673	2	US-09-146-249A-63	Sequence 63, Appl1
250	30	62.5	15	2	US-09-400-564-4	Sequence 4, Appl1	323	30	62.5	673	2	US-08-206-188B-63	Sequence 63, Appl1
251	30	62.5	27	2	US-09-400-564-13	Sequence 13, Appl1	324	30	62.5	673	2	US-09-079-630-35	Sequence 35, Appl1
252	30	62.5	30	1	US-08-934-915-54	Sequence 42998, A	325	30	62.5	911	1	US-08-928-692-59	Sequence 59, Appl1
253	30	62.5	50	1	US-09-270-767-42998	Sequence 40840, A	326	30	62.5	911	2	US-09-107-532A-4818	Sequence 4818, Ap
254	30	62.5	60	2	US-09-270-767-40840	Sequence 56056, A	327	29	60.4	73	2	US-09-248-796A-27891	Sequence 27891, Ap
255	30	62.5	60	2	US-09-270-767-56056	Sequence 4615, Ap	328	29	60.4	96	2	US-09-583-110-3243	Sequence 3243, Ap
256	30	62.5	73	2	US-09-513-999C-4615	Sequence 21621, A	329	29	60.4	100	2	US-10-194-975-77	Sequence 77, Appl1
257	30	62.5	84	2	US-09-248-796A-21621	Sequence 3972, Ap	330	29	60.4	108	1	US-08-378-939-28	Sequence 28, Appl1
258	30	62.5	88	2	US-09-621-976-3972	Sequence 4665, Ap	331	29	60.4	108	1	US-08-378-939-30	Sequence 30, Appl1
259	30	62.5	100	2	US-09-621-976-4465	Sequence 25, Appl1	332	29	60.4	113	2	US-09-323-290-19	Sequence 20, Appl1
260	30	62.5	100	2	US-09-840-459-25	Sequence 25, Appl1	333	29	60.4	113	2	US-09-323-290-19	Sequence 26, Appl1
261	30	62.5	100	2	US-09-840-459-29	Sequence 25, Appl1	334	29	60.4	113	2	US-09-323-290-19	Sequence 28, Appl1
262	30	62.5	100	2	US-09-497-625A-25	Sequence 29, Appl1	335	29	60.4	117	2	US-09-476-482-6	Sequence 6, Appl1
263	30	62.5	100	2	US-09-497-625A-29	Sequence 119, App	336	29	60.4	128	2	US-09-476-482-6	Sequence 2, Appl1
264	30	62.5	110	2	US-10-194-975-119	Sequence 2, Appl1	337	29	60.4	129	2	US-09-185-245-2	Sequence 7217, Ap
265	30	62.5	112	2	US-09-724-409-2	Sequence 2, Appl1	338	29	60.4	129	2	US-09-185-245-2	Sequence 4, Appl1
266	30	62.5	112	2	US-09-724-530-2	Sequence 2, Appl1	339	29	60.4	138	1	US-08-732-228-4	Sequence 3, Appl1
267	30	62.5	112	2	US-09-328-296-2	Sequence 2, Appl1	340	29	60.4	145	2	US-09-185-245-3	Sequence 68, Appl1
268	30	62.5	113	2	US-09-232-290-13	Sequence 13, Appl1	341	29	60.4	145	2	US-09-919-497-68	Sequence 32, Appl1
269	30	62.5	119	2	US-09-621-976-5890	Sequence 5890, Ap	342	29	60.4	147	2	US-09-755-665-32	Sequence 20, Appl1
270	30	62.5	131	1	US-07-977-696C-11	Sequence 11, Appl1	343	29	60.4	160	2	US-09-436-653C-18	Sequence 24, Appl1
271	30	62.5	131	1	US-08-129-930B-11	Sequence 11, Appl1	344	29	60.4	172	2	US-09-185-245-4	Sequence 4, Appl1
272	30	62.5	131	2	US-08-976-288A-11	Sequence 11, Appl1	345	29	60.4	172	2	US-09-185-245-4	Sequence 4, Appl1
273	30	62.5	133	2	US-09-947-839B-11	Sequence 29319, A	346	29	60.4	172	2	US-09-1010-147B-4	Sequence 272, App
274	30	62.5	133	2	US-09-252-991A-29319	Sequence 27939, A	347	29	60.4	181	2	US-09-198-452A-272	Sequence 282, App
275	30	62.5	146	2	US-09-252-991A-27939	Sequence 31928, A	348	29	60.4	212	2	US-09-438-185A-262	Sequence 34873, A
276	30	62.5	150	2	US-09-270-767-11928	Sequence 47145, A	349	29	60.4	212	2	US-09-270-767-34873	Sequence 50090, A
277	30	62.5	150	2	US-09-270-767-7145	Sequence 33631, A	350	29	60.4	212	2	US-09-270-767-50090	Sequence 18766, A
278	30	62.5	162	2	US-09-270-767-39361	Sequence 54578, A	351	29	60.4	226	2	US-09-248-796A-18766	Sequence 37664, A
279	30	62.5	162	2	US-09-270-767-54578	Sequence 5029, Ap	352	29	60.4	229	2	US-09-270-767-37664	Sequence 52881, A
280	30	62.5	216	2	US-09-328-352-5029	Sequence 4199, Ap	353	29	60.4	239	2	US-09-270-767-44181	Sequence 44181, A
281	30	62.5	228	2	US-09-134-001C-4199	Sequence 36638, A	354	29	60.4	256	2	US-09-627-650B-18	Sequence 18, Appl1
282	30	62.5	234	2	US-09-252-991A-30638	Sequence 44941, A	355	29	60.4	264	2	US-09-436-653C-18	Sequence 4, Appl1
283	30	62.5	241	2	US-08-902-486-13	Sequence 13, Appl1	356	29	60.4	267	2	US-08-969-415-4	Sequence 2, Appl1
284	30	62.5	244	2	US-09-270-767-44941	Sequence 7, Appl1	357	29	60.4	267	2	US-09-554-765-2	Sequence 6, Appl1
285	30	62.5	246	1	US-08-257-341-7	Sequence 4, Appl1	358	29	60.4	283	2	US-09-317-557-6	Sequence 2284, A
286	30	62.5	252	1	US-08-133-804-4	Sequence 4, Appl1	359	29	60.4	285	2	US-09-252-991A-23284	Sequence 24, Appl1
287	30	62.5	252	1	US-08-461-838-4	Sequence 4, Appl1	360	29	60.4	285	2	US-09-340-236-2967	Sequence 267, Ap
288	30	62.5	252	1	US-08-461-836-4	Sequence 1, Appl1	361	29	60.4	318	2	US-09-180-109A-21	Sequence 21, Appl1
289	30	62.5	260	1	US-08-447-402-1	Sequence 42, Appl1	362	29	60.4	328	2	US-09-180-109A-24	Sequence 27, Appl1
290	30	62.5	263	1	US-08-474-379C-42	Sequence 42, Appl1	363	29	60.4	341	2	US-09-180-109A-27	Sequence 29, Appl1
291	30	62.5	263	1	US-09-146-249A-42	Sequence 42, Appl1	364	29	60.4	341	2	US-10-314-048A-24	Sequence 9264, Ap
292	30	62.5	263	2	US-08-206-188B-42	Sequence 132, App	365	29	60.4	346	2	US-09-949-016-1264	Sequence 11, Appl1
293	30	62.5	265	1	US-07-688-352C-42	Sequence 55408, A	366	29	60.4	401	1	US-08-870-693-11	Sequence 765, App
294	30	62.5	269	2	US-09-070-408-132	Sequence 35931, A	367	29	60.4	401	1	US-08-554-765-15	Sequence 15, Appl1
295	30	62.5	289	2	US-09-270-767-40192	Sequence 51148, A	368	29	60.4	408	2	US-09-554-765-15	Sequence 14, Appl1
296	30	62.5	289	2	US-09-270-767-55408	Sequence 24675, A	369	29	60.4	409	2	US-09-270-767-44594	Sequence 44594, A
297	30	62.5	323	2	US-09-270-767-35931	Sequence 44, Appl1	370	29	60.4	409	2	US-09-252-991A-31174	Sequence 31174, A
298	30	62.5	323	2	US-09-270-767-51148	Sequence 5, Appl1	371	29	60.4	410	1	US-09-627-650B-17	Sequence 17, Appl1
299	30	62.5	367	1	US-08-257-341-5	Sequence 44, Appl1	372	29	60.4	410	1	US-09-436-653C-17	Sequence 114, Ap
300	30	62.5	377	2	US-09-252-991A-24675	Sequence 6639, Ap	373	29	60.4	449	2	US-09-436-653C-17	Sequence 1060, Ap
301	30	62.5	386	1	US-07-688-352C-44	Sequence 6640, Ap	374	29	60.4	449	2	US-09-438-185A-1040	Sequence 28550, A
302	30	62.5	386	1	PCT-US91-0271A-41	Sequence 40792, A	375	29	60.4	449	2	US-09-489-039A-10241	Sequence 45639, A
303	30	62.5	404	1	US-08-474-379C-44	Sequence 56008, A	376	29	60.4	501	2	US-09-270-767-45839	Sequence 11017, A
304	30	62.5	404	2	US-09-146-249A-44	Sequence 7854, Ap	377	29	60.4	501	2	US-09-248-796A-18765	Sequence 18765, A
305	30	62.5	420	2	US-08-206-188B-44	Sequence 61, Appl1	378	29	60.4	515	2	US-09-252-991A-20632	Sequence 10624, A
306	30	62.5	420	2	US-09-949-016-6639	Sequence 61, Appl1	379	29	60.4	525	2	US-09-902-540-10624	Sequence 2, Appl1
307	30	62.5	428	2	US-09-949-016-6640	Sequence 9498, Ap	380	29	60.4	573	2	PCT-US92-04227-2	Sequence 466, App
308	30	62.5	432	2	US-09-270-767-40792	Sequence 15, Appl1	381	29	60.4	630	2	US-09-198-452A-446	Sequence 446, App
309	30	62.5	432	2	US-09-270-767-56008	Sequence 2, Appl1	382	29	60.4	694	2	US-09-438-185A-446	Sequence 446, App
310	30	62.5	436	2	US-09-949-016-7854	Sequence 6441, Ap	383	29	60.4	1132	2		
311	30	62.5	451	1	US-08-474-379C-61		384	29	60.4	1414	2		
312	30	62.5	451	2	US-09-146-249A-61		385	29	60.4				
313	30	62.5	451	2	US-08-206-188B-61		386	29	60.4				
314	30	62.5	452	2	US-09-949-016-9498		387	29	60.4				
315	30	62.5	484	2	US-09-377-557-4		388	29	60.4				
316	30	62.5	496	2	US-08-902-486-15		389	29	60.4				
317	30	62.5	517	2	US-09-602-735B-4		390	29	60.4				
318	30	62.5	518	2	US-09-602-735B-2		391	29	60.4				
319	30	62.5	663	2	US-09-328-352-6441		392	29	60.4				

393	29	60.4	4126	2	US-09-953-096-4	Sequence 4, Appl1	466	28	58.3	276	2	US-09-248-796A-16179	Sequence 16179, A
394	29	60.4	5518	2	US-09-953-096-2	Sequence 2, Appl1	467	28	58.3	290	2	US-09-252-991A-29035	Sequence 29035, A
395	28.5	59.4	3878	2	US-09-914-859-11	Sequence 11, Appl1	468	28	58.3	293	2	US-09-512-342-14	Sequence 14, Appl1
396	28	58.3	14	2	US-09-127-815D-38	Sequence 38, Appl1	469	28	58.3	314	2	US-09-270-767-43045	Sequence 43045, A
397	28	58.3	14	2	US-10-095-450-38	Sequence 38, Appl1	470	28	58.3	333	2	US-09-562-737-2	Sequence 2, Appl1
398	28	58.3	14	2	US-10-648-642-38	Sequence 38, Appl1	471	28	58.3	337	2	US-09-252-991A-21261	Sequence 21261, A
399	28	58.3	60	4	PCT-US93-11154-3	Sequence 3, Appl1	472	28	58.3	350	2	US-09-438-185A-285	Sequence 285, App
400	28	58.3	60	4	PCT-US93-11154-7	Sequence 7, Appl1	473	28	58.3	363	2	US-10-314-048A-32	Sequence 32, Appl1
401	28	58.3	60	4	PCT-US93-11154-10	Sequence 10, Appl1	474	28	58.3	363	2	US-10-314-048A-96	Sequence 96, Appl1
402	28	58.3	67	2	US-09-489-039A-21318	Sequence 11318, A	475	28	58.3	400	1	US-08-624-601-8	Sequence 8, Appl1
403	28	58.3	61	2	US-09-248-796A-21633	Sequence 21633, A	476	28	58.3	443	2	US-09-270-767-46616	Sequence 46616, A
404	28	58.3	68	2	US-09-976-594-568	Sequence 568, App	477	28	58.3	446	2	US-09-489-039A-11543	Sequence 11543, A
405	28	58.3	69	2	US-09-370-767-39219	Sequence 39219, A	478	28	58.3	451	2	US-09-565-501A-108	Sequence 108, App
406	28	58.3	69	2	US-09-270-767-54436	Sequence 54436, A	479	28	58.3	451	2	US-09-639-206A-108	Sequence 108, App
407	28	58.3	75	2	US-09-248-796A-23022	Sequence 23022, A	480	28	58.3	451	2	US-09-874-923-108	Sequence 108, App
408	28	58.3	75	2	US-09-248-796A-23065	Sequence 23065, A	481	28	58.3	476	2	US-09-675-018B-8	Sequence 8, Appl1
409	28	58.3	77	2	US-09-255-518C-15	Sequence 15, Appl1	482	28	58.3	476	2	US-09-675-018B-10	Sequence 10, Appl1
410	28	58.3	77	2	US-09-255-518C-40	Sequence 40, Appl1	483	28	58.3	476	2	US-10-428-041-8	Sequence 10, Appl1
411	28	58.3	86	2	US-09-949-016-10474	Sequence 10474, A	484	28	58.3	476	2	US-10-428-041-10	Sequence 10, Appl1
412	28	58.3	94	2	US-09-198-452A-1181	Sequence 1181, Ap	485	28	58.3	494	2	US-09-248-796A-18116	Sequence 18116, A
413	28	58.3	99	2	US-09-583-110-3401	Sequence 1101, Ap	486	28	58.3	494	2	US-09-792-024-65	Sequence 65, Appl1
414	28	58.3	100	2	US-09-472-087-113	Sequence 113, App	487	28	58.3	497	2	US-09-248-796A-17122	Sequence 17122, A
415	28	58.3	100	2	US-09-840-459-24	Sequence 24, Appl1	488	28	58.3	521	2	US-09-252-991A-18266	Sequence 18266, A
416	28	58.3	100	2	US-09-497-625A-24	Sequence 24, Appl1	489	28	58.3	584	2	US-09-949-016-10340	Sequence 10340, A
417	28	58.3	100	2	US-10-194-975-75	Sequence 75, Appl1	490	28	58.3	584	2	US-09-949-016-10341	Sequence 10341, A
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419	28	58.3	101	2	US-09-513-999C-4718	Sequence 4718, Ap	492	28	58.3	604	2	US-09-949-016-6585	Sequence 6585, Ap
420	28	58.3	101	2	US-09-902-540-9784	Sequence 9784, Ap	493	28	58.3	604	2	US-09-949-016-10250	Sequence 10250, A
421	28	58.3	102	2	US-09-621-976-4176	Sequence 4176, Ap	494	28	58.3	605	2	US-09-902-540-12393	Sequence 12393, A
422	28	58.3	111	2	US-09-809-739-13	Sequence 13, Appl1	495	28	58.3	649	2	US-09-418-963-2	Sequence 2, Appl1
423	28	58.3	111	2	US-09-840-459-59	Sequence 59, Appl1	496	28	58.3	670	2	US-09-543-681A-5979	Sequence 5979, Ap
424	28	58.3	111	2	US-09-497-625A-11	Sequence 11, Appl1	497	28	58.3	677	2	US-09-543-681A-5460	Sequence 5460, Ap
425	28	58.3	111	2	US-09-497-625A-55	Sequence 55, Appl1	498	28	58.3	684	2	US-09-489-039A-13496	Sequence 13496, A
426	28	58.3	112	1	US-07-942-245-28	Sequence 28, Appl1	499	28	58.3	685	2	US-09-252-991A-32382	Sequence 32382, Ap
427	28	58.3	112	1	US-08-477-877B-89	Sequence 89, Appl1	500	28	58.3	752	2	US-10-104-047-2991	Sequence 2991, Ap
428	28	58.3	112	1	US-08-472-281A-89	Sequence 89, Appl1	501	28	58.3	838	1	US-08-868-786-4	Sequence 4, Appl1
429	28	58.3	112	1	US-08-477-989B-89	Sequence 89, Appl1	502	28	58.3	936	2	US-10-104-047-2621	Sequence 2621, Ap
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435	28	58.3	112	2	US-09-840-459-66	Sequence 66, Appl1	508	28	58.3	1248	2	US-09-566-047-6	Sequence 6, Appl1
436	28	58.3	112	2	US-09-840-459-67	Sequence 67, Appl1	509	28	58.3	1248	2	US-09-248-796A-15522	Sequence 15522, A
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439	28	58.3	112	2	US-09-497-625A-57	Sequence 57, Appl1	512	28	58.3	2832	2	US-10-109-310-10	Sequence 10, Appl1
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442	28	58.3	112	2	US-09-497-625A-66	Sequence 66, Appl1	515	28	58.3	3072	2	US-09-413-814-93	Sequence 93, Appl1
443	28	58.3	112	2	US-09-497-625A-67	Sequence 67, Appl1	516	28	58.3	3072	2	US-09-413-814-80	Sequence 80, Appl1
444	28	58.3	112	2	US-09-254-180C-8	Sequence 8, Appl1	517	28	58.3	3092	2	US-09-487-558B-172	Sequence 172, App
445	28	58.3	112	2	US-09-462-140D-97	Sequence 97, Appl1	518	27	56.2	8	2	US-09-127-815D-5	Sequence 5, Appl1
446	28	58.3	125	2	US-09-370-767-33517	Sequence 33517, A	519	27	56.2	8	2	US-09-127-815D-6	Sequence 6, Appl1
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453	28	58.3	154	2	US-09-370-767-41616	Sequence 41616, A	526	27	56.2	27	2	US-09-749-637A-374	Sequence 374, App
454	28	58.3	166	2	US-09-270-767-39029	Sequence 39029, A	527	27	56.2	27	2	US-09-749-637A-367	Sequence 267, App
455	28	58.3	166	2	US-09-270-767-41146	Sequence 41146, A	528	27	56.2	29	2	US-09-749-637A-368	Sequence 268, App
456	28	58.3	166	2	US-09-270-767-54246	Sequence 54246, A	529	27	56.2	29	2	US-09-749-637A-370	Sequence 270, App
457	28	58.3	166	2	US-09-270-767-56362	Sequence 56362, A	530	27	56.2	29	2	US-09-749-637A-373	Sequence 273, App
458	28	58.3	170	2	US-09-252-991A-27727	Sequence 27727, A	531	27	56.2	30	2	US-09-486-394-3	Sequence 3, Appl1
459	28	58.3	172	2	US-09-107-433-2814	Sequence 2814, Ap	532	27	56.2	38	2	US-08-545-860D-67	Sequence 67, Appl1
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462	28	58.3	232	2	US-09-543-681A-5424	Sequence 5424, Ap	535	27	56.2	41	2	US-09-185-908-12	Sequence 12, Appl1
463	28	58.3	256	2	US-09-270-767-35216	Sequence 35216, A	536	27	56.2	41	2	US-09-434-355A-12	Sequence 12, Appl1
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561	27	56.2	74	2	US-10-006-768A-189	Sequence 189, App
562	27	56.2	74	2	US-10-015-671A-189	Sequence 189, App
563	27	56.2	74	2	US-10-015-393A-189	Sequence 189, App
564	27	56.2	74	2	US-10-011-833A-189	Sequence 189, App
565	27	56.2	74	2	US-10-006-041A-189	Sequence 189, App
566	27	56.2	74	2	US-10-012-064A-189	Sequence 189, App
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572	27	56.2	100	2	US-09-497-625A-30	Sequence 182, App
573	27	56.2	107	2	US-08-311-731A-182	Sequence 63, Appl
574	27	56.2	113	2	US-09-840-459-53	Sequence 63, Appl
575	27	56.2	113	2	US-09-497-625A-63	Sequence 5472, Ap
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587	27	56.2	150	2	US-09-312-283C-306	Sequence 3628, Ap
588	27	56.2	152	2	US-09-134-000C-3628	Sequence 9288, Ap
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602	27	56.2	199	2	US-09-146-249A-38	Sequence 38, Appl
603	27	56.2	199	2	US-08-206-188B-38	Sequence 38, Appl
604	27	56.2	199	2	US-10-090-365-35	Sequence 35, Appl
605	27	56.2	199	2	US-09-728-911-35	Sequence 35, Appl
606	27	56.2	201	4	US-07-688-352C-38	Sequence 38, Appl
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644	27	56.2	317	1	US-08-864-799-5	Sequence 5, Appli
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649	27	56.2	325	2	US-09-870-574-3	Sequence 6, Appli
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655	27	56.2	332	2	US-09-270-767-42565	Sequence 42565, A
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660	27	56.2	355	2	US-09-289-843A-32	Sequence 32, Appl
661	27	56.2	355	2	US-09-088-337B-28	Sequence 28, Appl
662	27	56.2	355	2	US-09-088-337B-32	Sequence 32, Appl
663	27	56.2	355	2	US-09-170-496D-130	Sequence 130, App
664	27	56.2	355	2	US-09-170-496D-232	Sequence 232, App
665	27	56.2	355	2	US-09-917-254-68	Sequence 68, Appl
666	27	56.2	355	2	PCT-US93-11153-28	Sequence 28, Appl
667	27	56.2	355	4	PCT-US93-11153-32	Sequence 32, Appl
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677	27	56.2	414	2	US-09-949-016-6201	Sequence 6201, Ap
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679	27	56.2	423	2	US-09-949-016-10900	Sequence 10900, A
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686	27	56.2	434	2	US-09-252-991A-28716	Sequence 28716, A	759	27	56.2	898	1	US-08-474-379C-12	Sequence 12, Appl
687	27	56.2	463	2	US-09-489-039A-13405	Sequence 13405, A	760	27	56.2	898	2	US-09-146-249A-12	Sequence 12, Appl
688	27	56.2	469	1	US-08-968-751-2	Sequence 2, Appl1	761	27	56.2	898	2	US-08-206-188B-12	Sequence 12, Appl
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690	27	56.2	469	2	US-09-949-016-6664	Sequence 6664, Ap	763	27	56.2	901	2	US-09-917-254-93	Sequence 93, Appl
691	27	56.2	469	2	US-09-716-536-1	Sequence 1, Appl1	764	27	56.2	916	2	US-10-104-047-2297	Sequence 2297, Ap
692	27	56.2	476	2	US-09-675-018B-13	Sequence 13, Appl	765	27	56.2	927	2	US-09-270-767-46518	Sequence 46518, A
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694	27	56.2	476	2	US-10-428-041-13	Sequence 13, Appl	767	27	56.2	1059	2	US-09-800-792A-17	Sequence 217, App
695	27	56.2	476	2	US-10-428-041-14	Sequence 14, Appl	768	27	56.2	1068	2	US-09-248-796A-16119	Sequence 16119, A
696	27	56.2	478	2	US-09-675-018B-6	Sequence 6, Appl1	769	27	56.2	1090	2	US-09-085-199B-5	Sequence 5, Appl1
697	27	56.2	478	2	US-10-428-041-6	Sequence 6, Appl1	770	27	56.2	1243	2	US-09-198-452A-704	Sequence 704, App
698	27	56.2	480	2	US-09-270-767-43945	Sequence 43945, A	771	27	56.2	1243	2	US-09-438-188A-668	Sequence 668, App
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726	27	56.2	610	1	US-08-942-521B-7	Sequence 7, Appl1	799	27	55.2	246	2	US-09-710-279-576	Sequence 576, App
727	27	56.2	610	2	US-09-355-748-9	Sequence 9, Appl1	800	27	55.2	260	2	US-09-328-352-7569	Sequence 7569, App
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903	26	54.2	125	1	US-08-331-398A-67	Sequence 67, Appl	976	26	54.2	132	1	US-08-477-989B-91	Sequence 99, Appl


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993 26 54.2 289 2 US-09-184-658-63 Sequence 63, Appl
994 26 54.2 289 2 US-09-504-262D-63 Sequence 60014, A
995 26 54.2 290 2 US-09-270-767-60014 Sequence 60014, A
996 26 54.2 294 2 US-09-949-016-6097 Sequence 6097, Ap
997 26 54.2 295 1 US-08-679-765-5 Sequence 5, Appl1
998 26 54.2 295 1 US-09-196-525-5 Sequence 5, Appl1
999 26 54.2 295 1 US-09-318-317-5 Sequence 5, Appl1
1000 26 54.2 295 2 US-09-177-165A-22 Sequence 22, Appl
```

ALIGNMENTS

```
RESULT 1
US-09-574-749B-41
; Sequence 41, Application US/09574749B
; Patent No. 6548299
; GENERAL INFORMATION:
; APPLICANT: ROSENZWEIG, Michael
; APPLICANT: PYKETT, Mark J.
; APPLICANT: SCADEN, David T.
; APPLICANT: POZNANSKY, Mark C.
; TITLE OF INVENTION: LYMPHOID TISSUE-SPECIFIC CELL PRODUCTION
; TITLE OF INVENTION: FROM HEMATOPOIETIC PROGENITOR CELLS IN THREE-DIMENSIONAL
; TITLE OF INVENTION: DEVICES
; FILE REFERENCE: C1005/7012/KA/ERG
; CURRENT APPLICATION NUMBER: US/09/574, 749B
; CURRENT FILING DATE: 2002-05-31
; PRIOR APPLICATION NUMBER: US 60/107, 972
; PRIOR FILING DATE: 1998-11-12
; PRIOR APPLICATION NUMBER: PCT/US99/26795
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: US 09/524, 749
; PRIOR FILING DATE: 2000-05-18
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FaastSeq for Windows Version 3.0
; SEQ ID NO 41
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Papilloma source
US-09-574-749B-41

Query Match 100.0%; Score 48; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
RESULT 2
US-10-365-908-17
; Sequence 17, Application US/10365908
; Patent No. 6797491
```

```
; GENERAL INFORMATION:
; APPLICANT: Neefe, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/10/365, 908
; CURRENT FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US/09/891, 823
; PRIOR FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/214, 202
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: FaastSeq for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-10-365-908-17

Query Match 100.0%; Score 48; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0045;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVOSTHV 9
DB 2 RLCVOSTHV 10

RESULT 3
US-08-075-541D-48
; Sequence 48, Application US/08075541D
; Patent No. 6183745
; GENERAL INFORMATION:
; APPLICANT: TINDLE, ROBERT
; APPLICANT: FERNANDO, GERMAIN
; APPLICANT: FRAZER, IAN
; TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
; TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
; NUMBER OF SEQUENCES: 56
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
; STREET: 1601 MARKET STREET, 36TH FLOOR
; CITY: PHILADELPHIA
; STATE: PENNSYLVANIA
; COUNTRY: USA
; ZIP: 19103-2398
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/075, 541D
; FILING DATE: 10-JUN-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: AU Pk 3876
; FILING DATE: 12-DEC-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: Pct/au91/00575
; FILING DATE: 12-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: NADEL, ALAN S
; REGISTRATION NUMBER: 27,363
; REFERENCE/DOCKET NUMBER: 8795-4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-567-2991
; TELEFAX: 215-567-2991
; INFORMATION FOR SEQ ID NO: 48:
; SEQUENCE CHARACTERISTICS:
```


LENGTH: 17 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-075-541D-48

Query Match 100.0%; Score 48; DB 2; Length 17;
Best Local Similarity 100.0%; Pred. No. 0.008;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVOSTHV 9
|||||
Db 4 RLCVOSTHV 12

RESULT 4
US-08-075-541D-39
Sequence 39, Application US/08075541D
Patent No. 6183745
GENERAL INFORMATION:
APPLICANT: TINDLE, ROBERT
APPLICANT: FRAZER, IAN
TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
NUMBER OF SEQUENCES: 56
CORRESPONDENCE ADDRESSES:
ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
STREET: 1601 MARKET STREET, 36TH FLOOR
CITY: PHILADELPHIA
STATE: PENNSYLVANIA
COUNTRY: USA
ZIP: 19103-2398
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/075, 541D
FILING DATE: 10-JUN-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: AU pk 3876
FILING DATE: 12-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: pcc/au91/00575
FILING DATE: 12-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: NADEL, ALAN S
REGISTRATION NUMBER: 27,363
REFERENCE/DOCKET NUMBER: 8795-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-567-2920
TELEFAX: 215-567-2991
INFORMATION FOR SEQ ID NO: 39:
SEQUENCE CHARACTERISTICS:
LENGTH: 19 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-075-541D-39

Query Match 100.0%; Score 48; DB 2; Length 19;
Best Local Similarity 100.0%; Pred. No. 0.009;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVOSTHV 9
|||||
Db 5 RLCVOSTHV 13

RESULT 5
US-09-000-003A-8
Sequence 8, Application US/09000003A
Patent No. 6652850
GENERAL INFORMATION:
APPLICANT: Phillip, Ramila

TITLE OF INVENTION: ADENO-ASSOCIATED VIRAL LIPOSOMES AND
THEIR USE IN TRANSFECTING DENDRITIC CELLS TO STIMULATE
SPECIFIC IMMUNITY

NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Alexis Barron, Esq.
STREET: Suite 2600 Aramark Tower, 1101 Market Street
CITY: Philadelphia
STATE: PA
COUNTRY: United States of America
ZIP: 19107

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/000, 003A
FILING DATE: 15-Jun-1998
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/12012
FILING DATE: 19-JUL-1996

APPLICATION NUMBER: US 60/001,312
FILING DATE: 21-JUL-1995

APPLICATION NUMBER: US 60/007,184
FILING DATE: 01-NOV-1995

APPLICATION NUMBER: US 08/566,286
FILING DATE: 01-DEC-1995

ATTORNEY/AGENT INFORMATION:
NAME: Barron, Alexis

REGISTRATION NUMBER: 22,702
REFERENCE/DOCKET NUMBER: 20,846-K USA

TELECOMMUNICATION INFORMATION:
TELEPHONE: (215) 923-4466
TELEFAX: (215) 923-2189

INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 19 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal

SEQUENCE DESCRIPTION: SEQ ID NO: 8:
US-09-000-003A-8

Query Match 100.0%; Score 48; DB 2; Length 19;
Best Local Similarity 100.0%; Pred. No. 0.009;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVOSTHV 9
|||||
Db 7 RLCVOSTHV 15

RESULT 6
US-09-405-986A-9
Sequence 9, Application US/09405986A
Patent No. 6676946

GENERAL INFORMATION:
APPLICANT: Bay, Sylvie

APPLICANT: Cantacuzene, Daniele

APPLICANT: Leclerc, Claude

APPLICANT: Lo-Man, Richard
TITLE OF INVENTION: MULTIPLE ANTIGEN GLYCOPEPTIDE CARBOHYDRATE,

;; TITLE OF INVENTION: VACCINE COMPRISING THE SAME AND USE THEREOF
;; FILE REFERENCE: 102.166A-1
;; CURRENT APPLICATION NUMBER: US/09/405,986A
;; CURRENT FILING DATE: 2002-06-11
;; PRIOR APPLICATION NUMBER: US 09/049,847
;; PRIOR FILING DATE: 1998-03-27
;; PRIOR APPLICATION NUMBER: US 60/041,726
;; PRIOR FILING DATE: 1997-03-27
;; NUMBER OF SEQ ID NOS: 25
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 9
;; LENGTH: 19
;; TYPE: PRT
;; ORGANISM: Human papillomavirus type 16
;; FEATURE:
;; NAME/KEY: MISC FEATURE
;; OTHER INFORMATION: HPV 16 E7 PEPTIDE
US-09-405-986A-9

Query Match 100.0%; Score 48; DB 2; Length 19;
Best Local Similarity 100.0%; Pred. No. 0.009;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVOSTHV 9
Db 7 RLCVOSTHV 15

RESULT 7
US-09-828-645-4
;; Sequence 4, Application US/09828645
;; Patent No. 6743593
;; GENERAL INFORMATION:
;; APPLICANT: Hu, Yao Xiong
;; TITLE OF INVENTION: Immunological Methodology for Discerning Human Papillomavirus
;; FILE REFERENCE: 146-1-002
;; CURRENT FILING DATE: 2001-04-05
;; PRIOR APPLICATION NUMBER: US 60/194,796
;; PRIOR FILING DATE: 2000-04-05
;; NUMBER OF SEQ ID NOS: 8
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 4
;; LENGTH: 20
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Derived from the E7 early region of HPV-16
US-09-828-645-4

Query Match 100.0%; Score 48; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.0095;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVOSTHV 9
Db 6 RLCVOSTHV 14

RESULT 8
US-09-980-177A-74
;; Sequence 74, Application US/09980177A
;; Patent No. 6838084
;; GENERAL INFORMATION:
;; APPLICANT: Joehmus, Ingrid
;; TITLE OF INVENTION: Cytotoxic T-Cell Epitopes of the
;; TITLE OF INVENTION: Papilloma Virus L1-Protein and Use Thereof in Diagnosis and
;; FILE REFERENCE: 50125/036001
;; CURRENT APPLICATION NUMBER: US/09/980,177A
;; CURRENT FILING DATE: 2001-11-29
;; PRIOR APPLICATION NUMBER: PCT/EP00/05006

;; PRIOR FILING DATE: 2000-05-31
;; PRIOR APPLICATION NUMBER: DE 19925199.1
;; PRIOR FILING DATE: 1999-06-01
;; NUMBER OF SEQ ID NOS: 77
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 74
;; LENGTH: 20
;; TYPE: PRT
;; ORGANISM: Human papillomavirus type 16
US-09-980-177A-74

Query Match 100.0%; Score 48; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.0095;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVOSTHV 9
Db 11 RLCVOSTHV 19

RESULT 9
US-08-934-915-49
;; Sequence 49, Application US/08934915
;; Patent No. 5932412
;; GENERAL INFORMATION:
;; APPLICANT: DILLNER, JOAKIM
;; APPLICANT: DILLNER, LENA
;; APPLICANT: CHENG, HWEI-MING
;; TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
;; TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
;; TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
;; TITLE OF INVENTION: USEFUL IN IMMUNOSSAY FOR
;; TITLE OF INVENTION: DIAGNOSTIC PURPOSES
;; NUMBER OF SEQUENCES: 193
;; CORRESPONDENCE ADDRESSES:
;; ADDRESSER: MASON & ASSOCIATES, P.A.
;; STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
;; CITY: CLEARWATER
;; STATE: FLORIDA
;; COUNTRY: U.S.A.
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; OPERATING SYSTEM: IBM PC compatible
;; SOFTWARE: Microsoft Word 6.0
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/934,915
;; FILING DATE: 22-SEP-1997
;; CLASSIFICATION: 435
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 07/949,836
;; FILING DATE:
;; ATTORNEY/AGENT INFORMATION:
;; NAME: LOUISE A. FOUTCH
;; REGISTRATION NUMBER: 37,133
;; REFERENCE/DOCKET NUMBER: 1946.6
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 813-538-3800
;; TELEFAX: 813-538-3820
;; TELEX:
;; INFORMATION FOR SEQ ID NO: 49:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 21 amino acids
;; TYPE: amino acid
;; TOPOLOGY: linear
;; MOLECULE TYPE: peptide
US-08-934-915-49

Query Match 100.0%; Score 48; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.01;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVOSTHV 9

Db 5 RLCVOSTHV 13

RESULT 10
US-08-934-915-156
Sequence 156, Application US/08934915
Patent No. 5932412

GENERAL INFORMATION:

APPLICANT: DILLNER, JOAKIM

APPLICANT: DILLNER, LENA

APPLICANT: CHENG, HWEI-MING

TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN

TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,

TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,

TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR

TITLE OF INVENTION: DIAGNOSTIC PURPOSES

NUMBER OF SEQUENCES: 193

CORRESPONDENCE ADDRESS:

ADDRESSEE: MASON & ASSOCIATES, P.A.

STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500

CITY: CLEARWATER

STATE: FLORIDA

COUNTRY: U.S.A.

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: Windows 3.0

SOFTWARE: Microsoft Word 6.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/934,915

FILING DATE: 22-SEP-1997

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/949,836

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: LOUISE A. Foutch

REGISTRATION NUMBER: 37,133

REFERENCE/DOCKET NUMBER: 1946.6

TELECOMMUNICATION INFORMATION:

TELEPHONE: 813-538-3800

TELEFAX: 813-538-3820

TELEX:

INFORMATION FOR SEQ ID NO: 156:

SEQUENCE CHARACTERISTICS:

LENGTH: 21 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: peptide

US-08-934-915-156

Query Match 100.0%; Score 48; DB 1; Length 21;

Best Local Similarity 100.0%; Pred. No. 0.01;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 5 RLCVOSTHV 13

RESULT 11

US-08-075-541D-47

Sequence 47, Application US/08075541D

Patent No. 6183745

GENERAL INFORMATION:

APPLICANT: TINDLE, ROBERT

APPLICANT: PERAZZO, GERMALIN

APPLICANT: PRAZER, IAN

TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND

TITLE OF INVENTION: PEPTIDES FOR USE THEREIN

NUMBER OF SEQUENCES: 56

CORRESPONDENCE ADDRESS:

ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.

STREET: 1601 MARKET STREET, 36TH FLOOR

CITY: PHILADELPHIA

STATE: PENNSYLVANIA

COUNTRY: USA

ZIP: 19103-2398

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/075,541D

FILING DATE: 10-JUN-1993

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: AU pk 3876

FILING DATE: 12-DEC-1990

PRIOR APPLICATION DATA:

APPLICATION NUMBER: pct/au91/00575

FILING DATE: 12-DEC-1991

ATTORNEY/AGENT INFORMATION:

NAME: NADEL, ALAN S

REGISTRATION NUMBER: 27,363

REFERENCE/DOCKET NUMBER: 8795-4

TELECOMMUNICATION INFORMATION:

TELEPHONE: 215-567-2991

INFORMATION FOR SEQ ID NO: 47:

SEQUENCE CHARACTERISTICS:

LENGTH: 25 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: peptide

US-08-075-541D-47

Query Match 100.0%; Score 48; DB 2; Length 25;

Best Local Similarity 100.0%; Pred. No. 0.012;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 17 RLCVOSTHV 25

RESULT 12

US-08-934-915-53

Sequence 53, Application US/08934915

Patent No. 5932412

GENERAL INFORMATION:

APPLICANT: DILLNER, JOAKIM

APPLICANT: DILLNER, LENA

APPLICANT: CHENG, HWEI-MING

TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN

TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,

TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,

TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR

TITLE OF INVENTION: DIAGNOSTIC PURPOSES

NUMBER OF SEQUENCES: 193

CORRESPONDENCE ADDRESS:

ADDRESSEE: MASON & ASSOCIATES, P.A.

STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500

CITY: CLEARWATER

STATE: FLORIDA

COUNTRY: U.S.A.

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: Windows 3.0

SOFTWARE: Microsoft Word 6.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/934,915

;; FILING DATE: 22-SEP-1997
;; CLASSIFICATION: 435
;; PRIOR APPLICATION DATA: 07/949,836
;; APPLICATION NUMBER: 07/949,836
;; FILING DATE:
;; ATTORNEY/AGENT INFORMATION:
;; NAME: LOUISE A. FOUTCH
;; REGISTRATION NUMBER: 37,133
;; REFERENCE/DOCKET NUMBER: 1946.6
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 813-538-3800
;; TELEFAX: 813-538-3820
;;
;; TELETYPE:
;; INFORMATION FOR SEQ ID NO: 53:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 30 amino acids
;; TYPE: amino acid
;; TOPOLOGY: linear
;; MOLECULE TYPE: peptide
US-08-934-915-53

Query Match 100.0%; Score 48; DB 1; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVOSTHV 9
DB 9 RLCVOSTHV 17

RESULT 13
US-09-486-394-4
;; Sequence 4, Application US/09486394
;; Patent No. 6478749
;; GENERAL INFORMATION:
;; APPLICANT: HOPEL, Reinhard
;; TITLE OF INVENTION: Diagnostic Kit for Skin Tears, and Method
;; FILE REFERENCE: 032929-001
;; CURRENT APPLICATION NUMBER: US/09/486,394
;; CURRENT FILING DATE: 2000-06-20
;; PRIOR APPLICATION NUMBER: PCT/EP98/04773
;; PRIOR FILING DATE: 1998-07-30
;; PRIOR APPLICATION NUMBER: DE 197 37 409.3
;; PRIOR FILING DATE: 1997-08-27
;; NUMBER OF SEQ ID NOS: 6
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 4
;; LENGTH: 30
;; TYPE: PRT
;; ORGANISM: Human papillomavirus type 16
;; FEATURE:
;; NAME/KEY: PEPTIDE
;; LOCATION: (1)..(30)
;; OTHER INFORMATION: E7 peptide.
US-09-486-394-4

Query Match 100.0%; Score 48; DB 2; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVOSTHV 9
DB 6 RLCVOSTHV 14

RESULT 14
US-08-406-248-6
;; Sequence 6, Application US/08406248
;; Patent No. 5736318
;; GENERAL INFORMATION:
;; APPLICANT: Munger, Karl
;; APPLICANT: Jones, D. Leanne
;; TITLE OF INVENTION: METHOD AND KIT FOR EVALUATING

;; TITLE OF INVENTION: TRANSFORMED CELLS
;; NUMBER OF SEQUENCES: 6
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Ann-Louise Kerner, Ph.D., Lappin & Kusmer
;; STREET: 200 State Street
;; CITY: Boston
;; STATE: MA
;; COUNTRY: USA
;; ZIP: 02109
;;
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.25
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/406,248
;; FILING DATE:
;; CLASSIFICATION: 436
;; ATTORNEY/AGENT INFORMATION:
;; NAME: McDaniels, Patricia A.
;; REGISTRATION NUMBER: 33,194
;; REFERENCE/DOCKET NUMBER: HAZ-011
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 617-330-1300
;; TELEFAX: 617-330-1311
;; INFORMATION FOR SEQ ID NO: 6:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 98 amino acids
;; TYPE: amino acid
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
US-08-406-248-6

Query Match 100.0%; Score 48; DB 1; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.052;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVOSTHV 9
DB 66 RLCVOSTHV 74

RESULT 15
US-08-075-541D-42
;; Sequence 42, Application US/08075541D
;; Patent No. 6183745
;; GENERAL INFORMATION:
;; APPLICANT: TINDLE, ROBERT
;; APPLICANT: FERNANDO, GERMAIN
;; APPLICANT: FRAZER, IAN
;; TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
;; TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
;; NUMBER OF SEQUENCES: 56
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
;; STREET: 1601 MARKET STREET, 36TH FLOOR
;; CITY: PHILADELPHIA
;; STATE: PENNSYLVANIA
;; COUNTRY: USA
;; ZIP: 19103-2398
;;
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.25
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/075,541D
;; FILING DATE: 10-JUN-1993
;; CLASSIFICATION: 424
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: AU PK 3876
;; FILING DATE: 12-DEC-1990
;; PRIOR APPLICATION DATA:

APPLICATION NUMBER: pct/au91/00575
FILING DATE: 12-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: NADEL, ALAN S
REGISTRATION NUMBER: 27,363
REFERENCE/DOCKET NUMBER: 8795-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-567-2020
TELEFAX: 215-567-2391
INFORMATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-075-541D-42

Query Match 100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.052;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCTVQSTHV 9
Db 66 RLCTVQSTHV 74

RESULT 16
US-09-382-616A-1
Sequence 1, Application US/09382616A
Patent No. 6200746
GENERAL INFORMATION:
APPLICANT: Fisher, Christopher
APPLICANT: He, Manxia
TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
FILE REFERENCE: 28341/6216
CURRENT APPLICATION NUMBER: US/09/382,616A
CURRENT FILING DATE: 1999-08-25
PRIORITY APPLICATION NUMBER: 09/382,616
PRIORITY FILING DATE: 1999-08-25
NUMBER OF SEQ ID NOS: 43
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 1
LENGTH: 98
TYPE: PRT
ORGANISM: Papillomavirus sylvilagi
US-09-382-616A-1

Query Match 100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.052;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCTVQSTHV 9
Db 66 RLCTVQSTHV 74

RESULT 17
US-08-944-368A-4
Sequence 4, Application US/08944368A
Patent No. 6228368
GENERAL INFORMATION:
APPLICANT: Gissman, et al.
TITLE OF INVENTION: Papilloma Virus Capsomere Vaccine
TITLE OF INVENTION: Formulations and Methods of Use
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
ADDRESS: Borun
STREET: 233 South Wacker Drive, 6300 Sears Tower
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America

ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/944,368A
FILING DATE:
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Williams Jr., Joseph A.
REGISTRATION NUMBER: 38,659
REFERENCE/DOCKET NUMBER: 27013/34028
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-474-6300
TELEFAX: 312-474-0448
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-944-368A-4

Query Match 100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.052;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCTVQSTHV 9
Db 66 RLCTVQSTHV 74

RESULT 18
US-09-820-764-4
Sequence 4, Application US/09820764
Patent No. 6352696
GENERAL INFORMATION:
APPLICANT: BURGER, Alexander
HALLEK, Michael
TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
FORMULATIONS AND METHODS OF USE
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/820,764
FILING DATE: 30-Mar-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/026,896
FILING DATE: 20-FEB-1998
ATTORNEY/AGENT INFORMATION:
NAME: Sandercock, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids

TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-820-764-4

Query Match 100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.052;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVQSTHV 9
Db 66 RLCVQSTHV 74

RESULT 19
US-09-613-303-8
Sequence 8, Application US/09613303
Patent No. 6495347
GENERAL INFORMATION:
APPLICANT: Siegel, Marvin
APPLICANT: Chu, N. Randall
APPLICANT: Mizzen, Lee A.
TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
FILE REFERENCE: 12071/002001
CURRENT APPLICATION NUMBER: US/09/613,303
CURRENT FILING DATE: 2000-07-10
PRIOR APPLICATION NUMBER: US 60/143,757
PRIOR FILING DATE: 1999-07-08
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 8
LENGTH: 98
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: fusion sequence
US-09-613-303-8

Query Match 100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.052;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVQSTHV 9
Db 66 RLCVQSTHV 74

RESULT 20
US-09-566-420-19
Sequence 19, Application US/09566420
Patent No. 6500641
GENERAL INFORMATION:
APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
FILE REFERENCE: TBA
CURRENT APPLICATION NUMBER: US/09/566,420
CURRENT FILING DATE: 2000-05-05
PRIOR APPLICATION NUMBER: 60/132,752
PRIOR FILING DATE: 1999-05-06
PRIOR APPLICATION NUMBER: 60/132,750
PRIOR FILING DATE: 1999-05-06
NUMBER OF SEQ ID NOS: 19
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 19
LENGTH: 98
TYPE: PRT
ORGANISM: Human papillomavirus type E7
US-09-566-420-19

Query Match 100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.052;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 RLCVQSTHV 9
Db 66 RLCVQSTHV 74

RESULT 21
US-09-986-118A-4
Sequence 4, Application US/09986118A
Patent No. 6562351
GENERAL INFORMATION:
APPLICANT: BURGER, Alexander
APPLICANT: HALPER, Michael
TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
FORMULATIONS AND METHODS OF USE
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/986,118A
FILING DATE: 07-NO. 6562351-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/026,896
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Sandercock, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102
TELECOMMUNICATION INFORMATION:
TELEPHONE: (1202) 672-5300
TELEFAX: (1202) 672-5399
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-986-118A-4

Query Match 100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.052;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVQSTHV 9
Db 66 RLCVQSTHV 74

RESULT 22
US-09-728-466-1
Sequence 1, Application US/09728466
Patent No. 6641994
GENERAL INFORMATION:
APPLICANT: Fisher, Christopher
APPLICANT: He, Wankia
TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
FILE REFERENCE: 28341/6216
CURRENT APPLICATION NUMBER: US/09/728,466
CURRENT FILING DATE: 2000-12-01
PRIOR APPLICATION NUMBER: 09/382,616

PRIOR FILING DATE: 1999-08-25
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1
LENGTH: 98
TYPE: PRT
ORGANISM: Papillomavirus sylvilagi
US-09-728-466-1

Query Match 100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.052;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVOSTHV 9
DB 66 RLCVOSTHV 74

RESULT 23

US-09-824-017-4
Sequence 4, Application US/09824017
Patent No. 6649167
GENERAL INFORMATION:
APPLICANT: BURGER, Alexander
HALLEK, Michael
TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
FORMULATIONS AND METHODS OF USE
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/824.017
FILING DATE: 03-Apr-2001
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/026,896
FILING DATE: 1998-02-20
ATTORNEY/AGENT INFORMATION:
NAME: Sandercock, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-824-017-4

Query Match 100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.052;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVOSTHV 9
DB 66 RLCVOSTHV 74

RESULT 24

US-10-267-311-8
Sequence 8, Application US/10267311
Patent No. 6657055
GENERAL INFORMATION:
APPLICANT: Siegel, Marvin
APPLICANT: Chu, N. Randall
APPLICANT: Mizzen, Lee A.
TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
FILE REFERENCE: 12071/002001
CURRENT APPLICATION NUMBER: US/10/267,311
CURRENT FILING DATE: 2002-10-09
PRIOR APPLICATION NUMBER: US/09/613,303
PRIOR FILING DATE: 2000-07-10
PRIOR APPLICATION NUMBER: US 60/143,757
PRIOR FILING DATE: 1999-07-08
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 8
LENGTH: 98
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: fusion sequence
US-10-267-311-8

Query Match 100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.052;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVOSTHV 9
DB 66 RLCVOSTHV 74

RESULT 25

US-10-201-764-19
Sequence 19, Application US/10201764
Patent No. 6716623
GENERAL INFORMATION:
APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
IMMUNE RESPONSE
FILE REFERENCE: TEA
CURRENT APPLICATION NUMBER: US/10/201,764
CURRENT FILING DATE: 2002-07-22
PRIOR APPLICATION NUMBER: US/09/566,420
PRIOR FILING DATE: 2000-05-05
PRIOR APPLICATION NUMBER: 60/132,752
PRIOR FILING DATE: 1999-05-06
PRIOR APPLICATION NUMBER: 60/132,750
PRIOR FILING DATE: 1999-05-06
NUMBER OF SEQ ID NOS: 19
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 19
LENGTH: 98
TYPE: PRT
ORGANISM: Human papillomavirus type E7
US-10-201-764-19

Query Match 100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.052;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVOSTHV 9
DB 66 RLCVOSTHV 74

RESULT 26

US-09-637-746-3
Sequence 3, Application US/09637746
Patent No. 6727079
GENERAL INFORMATION:

```
/ APPLICANT: Thorgerirsson, Snorri S.
/ APPLICANT: Woltsch, Joseph T.
/ APPLICANT: Zhang, Minghuang
/ TITLE OF INVENTION: CDNA ENCODING A GENE BOG (B5T OVER-EXPRESSED GENE) AND ITS PROTEI
/ FILE REFERENCE: 11613.29USM1
/ CURRENT APPLICATION NUMBER: US/09/637,746
/ CURRENT FILING DATE: 2000-08-11
/ PRIOR APPLICATION NUMBER: PCT/US99/04142
/ PRIOR FILING DATE: 1999-02-25
/ PRIOR APPLICATION NUMBER: US 60/079,567
/ PRIOR FILING DATE: 1998-03-27
/ PRIOR APPLICATION NUMBER: US 60/075,922
/ PRIOR FILING DATE: 1998-02-25
/ NUMBER OF SEQ ID NOS: 15
/ SOFTWARE: Patentin version 3.1
/ SEQ ID NO 3
/ LENGTH: 98
/ TYPE: PRT
/ ORGANISM: Human papillomavirus
US-09-637-746-3
```

```
Query Match          100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.052;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RLCVOSTHV 9
        |||||
Db      66 RLCVOSTHV 74
```

```
RESULT 27
US-09-501-097A-7
/ Sequence 7, Application US/09501097A
/ Patent No. 6734173
/ GENERAL INFORMATION:
/ APPLICANT: Tzyy-Chouu Wu
/ APPLICANT: Chien-Fu Hung
/ TITLE OF INVENTION: IMPROVED HSP DNA VACCINES
/ FILE REFERENCE: 2240-169349
/ CURRENT APPLICATION NUMBER: US/09/501,097A
/ CURRENT FILING DATE: 2000-02-09
/ NUMBER OF SEQ ID NOS: 25
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 7
/ LENGTH: 98
/ TYPE: PRT
/ ORGANISM: human papillomavirus
US-09-501-097A-7
```

```
Query Match          100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.052;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RLCVOSTHV 9
        |||||
Db      66 RLCVOSTHV 74
```

```
RESULT 28
US-09-980-523A-12
/ Sequence 12, Application US/09980523A
/ Patent No. 6783763
/ GENERAL INFORMATION:
/ APPLICANT: CHOPPIN, JEANNINE
/ APPLICANT: BOURGAULT VILLADA, ISABELLE
/ APPLICANT: GUILLET, JEAN-GERARD
/ APPLICANT: CONNAN, FRANCIENE
/ APPLICANT: FERRIES, ESTELLE
/ TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 AND E7
/ TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
/ TITLE OF INVENTION: PARTICULARLY IN VACCINATION
/ FILE REFERENCE: WO91 AO INS
```

```
/ CURRENT APPLICATION NUMBER: US/09/980,523A
/ CURRENT FILING DATE: 2002-04-29
/ PRIOR APPLICATION NUMBER: PCT/FR00/01513
/ PRIOR FILING DATE: 2000-05-31
/ PRIOR APPLICATION NUMBER: FR 99/07012
/ PRIOR FILING DATE: 1999-06-03
/ NUMBER OF SEQ ID NOS: 24
/ SOFTWARE: Patentin Ver. 2.1
/ SEQ ID NO 12
/ LENGTH: 98
/ TYPE: PRT
/ ORGANISM: Human Papillomavirus
US-09-980-523A-12
```

```
Query Match          100.0%; Score 48; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.052;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RLCVOSTHV 9
        |||||
Db      66 RLCVOSTHV 74
```

```
RESULT 29
US-09-613-303-12
/ Sequence 12, Application US/09613303
/ Patent No. 6495347
/ GENERAL INFORMATION:
/ APPLICANT: Siegel, Marvin
/ APPLICANT: Chu N. Randall
/ APPLICANT: Mizzen, Lee A.
/ TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
/ FILE REFERENCE: 12071/002001
/ CURRENT APPLICATION NUMBER: US/09/613,303
/ CURRENT FILING DATE: 2000-07-10
/ PRIOR APPLICATION NUMBER: US 60/143,757
/ PRIOR FILING DATE: 1999-07-08
/ NUMBER OF SEQ ID NOS: 55
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 12
/ LENGTH: 121
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: fusion sequence
US-09-613-303-12
```

```
Query Match          100.0%; Score 48; DB 2; Length 121;
Best Local Similarity 100.0%; Pred. No. 0.065;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RLCVOSTHV 9
        |||||
Db      89 RLCVOSTHV 97
```

```
RESULT 30
US-10-267-311-12
/ Sequence 12, Application US/10267311
/ Patent No. 6657055
/ GENERAL INFORMATION:
/ APPLICANT: Siegel, Marvin
/ APPLICANT: Chu, N. Randall
/ APPLICANT: Mizzen, Lee A.
/ TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
/ FILE REFERENCE: 12071/002001
/ CURRENT APPLICATION NUMBER: US/10/267,311
/ CURRENT FILING DATE: 2002-10-09
/ PRIOR APPLICATION NUMBER: US/09/613,303
/ PRIOR FILING DATE: 2000-07-10
/ PRIOR APPLICATION NUMBER: US 60/143,757
/ PRIOR FILING DATE: 1999-07-08
/ NUMBER OF SEQ ID NOS: 55
```



```
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 121
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-267-311-12
```

```
Query Match          100.0%; Score 48; DB 2; Length 121;
Best Local Similarity 100.0%; Pred. No. 0.065;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RLCVOSTHV 9
         |||||
Db       89 RLCVOSTHV 97
```

```
RESULT 31
US-08-860-165-14
; Sequence 14, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 11227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-14
```

```
Query Match          100.0%; Score 48; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.095;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RLCVOSTHV 9
         |||||
Db       34 RLCVOSTHV 42
```

```
RESULT 32
US-09-359-382-14
; Sequence 14, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
```

```
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-14
```

```
Query Match          100.0%; Score 48; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.095;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RLCVOSTHV 9
         |||||
Db       34 RLCVOSTHV 42
```

```
RESULT 33
US-09-462-993-2
; Sequence 2, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
; APPLICANT: KIENY, Marie-Paule
; APPLICANT: BALLOU, Jean-Marc
; APPLICANT: BIZOURNE, Nadine
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
; FILE REFERENCE: 017753-122
; CURRENT APPLICATION NUMBER: US/09/462,993
; CURRENT FILING DATE: 2000-04-17
; PRIOR APPLICATION NUMBER: PCT/FR98/01576
; PRIOR FILING DATE: 1998-07-17
; PRIOR APPLICATION NUMBER: FR 97/09152
; PRIOR FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: Patentin Ver. 2.2
; SEQ ID NO 2
; LENGTH: 185
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from human papillomavirus, strain
; OTHER INFORMATION: HPV-16, E7 fusion signals of the rabies
; OTHER INFORMATION: glycoprotein, clone E7*TR.
US-09-462-993-2
```

```
Query Match          100.0%; Score 48; DB 2; Length 185;
Best Local Similarity 100.0%; Pred. No. 0.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RLCVOSTHV 9
         |||||
Db       85 RLCVOSTHV 93
```

```
RESULT 34
US-09-613-303-35
; Sequence 35, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A THI-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/09/613,303
; CURRENT FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 35
; LENGTH: 198
```

```

; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-09-613-303-35
```

```
Query Match          100.0%; Score 48; DB 2; Length 198;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RLCVOSTHV 9
    |||||
Db 166 RLCVOSTHV 174
```

```
RESULT 35
; Sequence 35, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/267,311
; CURRENT FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 35
; LENGTH: 198
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-267-311-35
```

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Query Match          100.0%; Score 48; DB 2; Length 198;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY 1 RLCVOSTHV 9
    |||||
Db 166 RLCVOSTHV 174
```

```
RESULT 36
US-09-485-885-1
; Sequence 1, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 220
; TYPE: PRT
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```

; ORGANISM: Homo sapien
US-09-485-885-1
```

```
Query Match          100.0%; Score 48; DB 2; Length 220;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RLCVOSTHV 9
    |||||
Db 179 RLCVOSTHV 187
```

```
RESULT 37
US-09-485-885-8
; Sequence 8, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 8
; LENGTH: 220
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-8
```

```
Query Match          100.0%; Score 48; DB 2; Length 220;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RLCVOSTHV 9
    |||||
Db 179 RLCVOSTHV 187
```

```
RESULT 38
US-09-485-885-12
; Sequence 12, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 12
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-12
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Query Match 100.0%; Score 48; DB 2; Length 239;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVQSTHV 9
DB 198 RLCVQSTHV 206

RESULT 39
US-08-459-818-20
Sequence 20, Application US/08459818
Patent No. 5851795
GENERAL INFORMATION:
APPLICANT: Linsley, Peter S.
APPLICANT: Ledbetter, Jeffrey A.
APPLICANT: Damle, Nitin K.
APPLICANT: Brady, William
TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merchant & Gould
STREET: 11150 Santa Monica Blvd., Suite 400
CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90025
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Fastseq 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/459,818
FILING DATE: 02-JUN-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Adriano, Sarah B.
REGISTRATION NUMBER: 34,470
REFERENCE/DOCKET NUMBER: 30436.35US02
TELECOMMUNICATION INFORMATION:
TELEPHONE: 310-445-1140
TELEFAX: 310-445-9031
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 253 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-459-818-20
Query Match 100.0%; Score 48; DB 1; Length 253;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 RLCVQSTHV 9
DB 221 RLCVQSTHV 229
RESULT 40
US-08-889-666-20
Sequence 20, Application US/08889666
Patent No. 5885579
GENERAL INFORMATION:
APPLICANT: Linsley, Peter S.
APPLICANT: Ledbetter, Jeffrey A.
APPLICANT: Damle, Nitin K.
APPLICANT: Brady, William
APPLICANT: Kiener, Peter A.
TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
NUMBER OF SEQUENCES: 26

CORRESPONDENCE ADDRESS:
ADDRESSEE: Merchant & Gould
STREET: 11150 Santa Monica Blvd., Suite 400
CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90025
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/889,666
FILING DATE: 08-JUL-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/375390
FILING DATE: 18-JAN-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Adriano, Sarah B.
REGISTRATION NUMBER: 34,470
REFERENCE/DOCKET NUMBER: 30436-35US01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 310-445-1140
TELEFAX: 310-445-9031
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 253 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-889-666-20

Query Match 100.0%; Score 48; DB 1; Length 253;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVQSTHV 9
DB 221 RLCVQSTHV 229

RESULT 41
US-08-465-078-20
Sequence 20, Application US/08465078
Patent No. 5885796
GENERAL INFORMATION:
APPLICANT: Linsley, Peter S.
APPLICANT: Ledbetter, Jeffrey A.
APPLICANT: Damle, Nitin K.
APPLICANT: Brady, William
APPLICANT: Kiener, Peter A.
TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merchant & Gould
STREET: 11150 Santa Monica Blvd., Suite 400
CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90025
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/465,078
FILING DATE: 05-JUN-1995
CLASSIFICATION: 435

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/375390
FILING DATE: 18-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Adriano, Sarah B.
REGISTRATION NUMBER: 34,470
REFERENCE/DOCKET NUMBER: 30436-35US01
TELEPHONE: 310-445-1140
TELEFAX: 310-445-9031
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 253 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-465-078-20

Query Match 100.0%; Score 48; DB 1; Length 253;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVOSTHV 9
DB 221 RLCVOSTHV 229

RESULT 42
US-08-725-776-20
Sequence 20, Application US/08725776
Patent No. 5968510
GENERAL INFORMATION:
APPLICANT: Linsley, Peter S.
APPLICANT: Ledbetter, Jeffrey A.
APPLICANT: Damle, Nitin K.
APPLICANT: Brady, William
APPLICANT: Kiener, Peter A.
TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merchant & Gould
STREET: 11150 Santa Monica Blvd., Suite 400
CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90025
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/725,776
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/375390
FILING DATE: 18-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Adriano, Sarah B.
REGISTRATION NUMBER: 34,470
REFERENCE/DOCKET NUMBER: 30436-35US01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 310-445-1140
TELEFAX: 310-445-9031
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 253 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein

US-08-725-776-20

Query Match 100.0%; Score 48; DB 1; Length 253;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVOSTHV 9
DB 221 RLCVOSTHV 229

RESULT 43
US-08-488-062-20
Sequence 20, Application US/08488062
Patent No. 5977318
GENERAL INFORMATION:
APPLICANT: Linsley, Peter S.
APPLICANT: Ledbetter, Jeffrey A.
APPLICANT: Damle, Nitin K.
APPLICANT: Brady, William
APPLICANT: Kiener, Peter A.
TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merchant & Gould
STREET: 11150 Santa Monica Blvd., Suite 400
CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90025
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/488,062
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/375390
FILING DATE: 18-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Adriano, Sarah B.
REGISTRATION NUMBER: 34,470
REFERENCE/DOCKET NUMBER: 30436-35US01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 310-445-1140
TELEFAX: 310-445-9031
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 253 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-488-062-20

Query Match 100.0%; Score 48; DB 1; Length 253;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVOSTHV 9
DB 221 RLCVOSTHV 229

RESULT 44
US-08-117-083-9
Sequence 9, Application US/08117083
Patent No. 5719054
GENERAL INFORMATION:
APPLICANT: Bournnell, Michael E.

```

; APPLICANT: Inglis, Stephen C.
; APPLICANT: Munro, Alan J.
; TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human
; TITLE OF INVENTION: Papilloma Virus Proteins
; NUMBER OF SEQUENCES: 70
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Walter H. Dreger
; STREET: 4 Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/117,083
; FILING DATE: 10-SEP-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Dreger, Walter H.
; REGISTRATION NUMBER: 24,190
; REFERENCE/DOCKET NUMBER: A-58783
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-781-1989
; TELEFAX: 415-398-3249
; TELEX: 910 277299
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 263 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..263
; OTHER INFORMATION: /note="Xaa refers to stop codon in
; OTHER INFORMATION: the open reading frame."
US-08-117-083-9

Query Match 100.0%; Score 48; DB 1; Length 263;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RLCVQSTHV 9
Db 227 RLCVQSTHV 235

RESULT 45
US-08-860-165-10
; Sequence 10, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU P0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
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```

; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

Query Match 100.0%; Score 48; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RLCVQSTHV 9
Db 226 RLCVQSTHV 234

RESULT 46
US-09-359-382-10
; Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU P0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-10

Query Match 100.0%; Score 48; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RLCVQSTHV 9
Db 226 RLCVQSTHV 234
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```

RESULT 47
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428607
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; APPLICANT: MALLIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A
; CURRENT FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-367-309A-1
```

Query Match 100.0%; Score 48; DB 2; Length 266;
 Best Local Similarity 100.0%; Pred. No. 0.15;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVOSTHV 9
 |||||
 Db 226 RLCVOSTHV 234

RESULT 48
 US-09-501-097A-25

; Sequence 25; Application US/09501097A
 ; Patent No. 6734173
 ; GENERAL INFORMATION:
 ; APPLICANT: Tzyy-Choo Wu
 ; APPLICANT: Chien-Fu Hung
 ; TITLE OF INVENTION: IMPROVED HSP DNA VACCINES
 ; FILE REFERENCE: 2240-169349
 ; CURRENT APPLICATION NUMBER: US/09/501,097A
 ; CURRENT FILING DATE: 2000-02-09
 ; NUMBER OF SEQ ID NOS: 25
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 25
 ; LENGTH: 287
 ; TYPE: PRT
 ; ORGANISM: Human papillomavirus/Mouse
 US-09-501-097A-25

Query Match 100.0%; Score 48; DB 2; Length 287;
 Best Local Similarity 100.0%; Pred. No. 0.17;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVOSTHV 9
 |||||
 Db 255 RLCVOSTHV 263

RESULT 49
 US-09-613-303-33

; Sequence 33; Application US/09613303
 ; Patent No. 6495347
 ; GENERAL INFORMATION:
 ; APPLICANT: Siegel, Marvin
 ; APPLICANT: Chu, N. Randall
 ; APPLICANT: Mizzen, Lee A.
 ; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
 ; FILE REFERENCE: 12071/002001
 ; CURRENT APPLICATION NUMBER: US/09/613,303
 ; CURRENT FILING DATE: 2000-07-10
 ; PRIOR APPLICATION NUMBER: US 60/143,757
 ; PRIOR FILING DATE: 1999-07-08
 ; NUMBER OF SEQ ID NOS: 55
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 33
 ; LENGTH: 295
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: fusion sequence
 US-09-613-303-33

Query Match 100.0%; Score 48; DB 2; Length 295;
 Best Local Similarity 100.0%; Pred. No. 0.17;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVOSTHV 9
 |||||
 Db 263 RLCVOSTHV 271

RESULT 50
 US-10-267-311-33

; Sequence 33; Application US/10267311
 ; Patent No. 6657055
 ; GENERAL INFORMATION:
 ; APPLICANT: Siegel, Marvin
 ; APPLICANT: Chu, N. Randall
 ; APPLICANT: Mizzen, Lee A.
 ; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
 ; FILE REFERENCE: 12071/002001
 ; CURRENT APPLICATION NUMBER: US/10/267,311
 ; CURRENT FILING DATE: 2002-10-09
 ; PRIOR APPLICATION NUMBER: US/09/613,303
 ; PRIOR FILING DATE: 2000-07-10
 ; PRIOR APPLICATION NUMBER: US 60/143,757
 ; PRIOR FILING DATE: 1999-07-08
 ; NUMBER OF SEQ ID NOS: 55
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 33
 ; LENGTH: 295
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: fusion sequence
 US-10-267-311-33

Query Match 100.0%; Score 48; DB 2; Length 295;
 Best Local Similarity 100.0%; Pred. No. 0.17;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVOSTHV 9
 |||||
 Db 263 RLCVOSTHV 271

Search completed: May 5, 2006, 04:00:56
 Job time : 25 secs

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:07:45 ; Search time 55.8 Seconds
(Without alignments)
67.392 Million cell updates/sec

Title: US-08-170-344-16

Perfect score: 48

Sequence: 1 RLCVQSTHV 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

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2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*
5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*
6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	48	100.0	9	4	US-10-161-097-11 Sequence 41, Appl
2	48	100.0	9	4	US-10-133-210-274 Sequence 274, Appl
3	48	100.0	9	5	US-10-484-063-16 Sequence 16, Appl
4	48	100.0	10	3	US-09-891-823-17 Sequence 17, Appl
5	48	100.0	10	4	US-10-365-908-17 Sequence 17, Appl
6	48	100.0	10	5	US-10-871-138-17 Sequence 17, Appl
7	48	100.0	15	4	US-10-648-547-77 Sequence 83, Appl
8	48	100.0	15	4	US-10-648-547-83 Sequence 83, Appl
9	48	100.0	15	4	US-10-648-547-89 Sequence 89, Appl
10	48	100.0	15	4	US-10-648-547-93 Sequence 93, Appl
11	48	100.0	15	4	US-10-648-547-94 Sequence 94, Appl
12	48	100.0	15	4	US-10-476-570-16 Sequence 16, Appl
13	48	100.0	15	4	US-10-476-570-48 Sequence 48, Appl
14	48	100.0	15	4	US-10-306-541-77 Sequence 77, Appl
15	48	100.0	15	4	US-10-306-541-83 Sequence 83, Appl
16	48	100.0	15	4	US-10-306-541-89 Sequence 89, Appl
17	48	100.0	15	4	US-10-306-541-93 Sequence 93, Appl
18	48	100.0	15	4	US-10-306-541-94 Sequence 94, Appl
19	48	100.0	18	4	US-10-355-258-16 Sequence 16, Appl
20	48	100.0	19	3	US-09-888-721-17 Sequence 7, Appl
21	48	100.0	19	4	US-10-668-400-9 Sequence 9, Appl
22	48	100.0	19	4	US-10-479-541-1 Sequence 1, Appl
23	48	100.0	20	3	US-09-828-645-4 Sequence 49, Appl
24	48	100.0	20	4	US-10-433-465-49 Sequence 74, Appl
25	48	100.0	20	5	US-10-890-526-74 Sequence 4, Appl
26	48	100.0	20	5	US-10-827-007-4 Sequence 4, Appl
27	48	100.0	20	5	US-10-827-083-4 Sequence 4, Appl

28	48	100.0	23	4	US-10-476-570-17 Sequence 17, Appl
29	48	100.0	98	3	US-09-728-466-1 Sequence 1, Appl
30	48	100.0	98	3	US-09-820-765-4 Sequence 4, Appl
31	48	100.0	98	3	US-09-824-017-4 Sequence 4, Appl
32	48	100.0	98	3	US-09-986-118A-4 Sequence 4, Appl
33	48	100.0	98	4	US-10-267-311-8 Sequence 8, Appl
34	48	100.0	98	4	US-10-177-390-8 Sequence 8, Appl
35	48	100.0	98	4	US-10-201-764-19 Sequence 19, Appl
36	48	100.0	98	4	US-10-392-113-29 Sequence 29, Appl
37	48	100.0	98	4	US-10-654-129-4 Sequence 4, Appl
38	48	100.0	98	4	US-10-681-410-19 Sequence 19, Appl
39	48	100.0	98	4	US-10-772-988-3 Sequence 3, Appl
40	48	100.0	98	4	US-10-772-988-3 Sequence 5, Appl
41	48	100.0	98	5	US-10-042-526A-4 Sequence 4, Appl
42	48	100.0	98	5	US-10-657-399-1 Sequence 12, Appl
43	48	100.0	98	5	US-10-858-384-12 Sequence 26, Appl
44	48	100.0	98	5	US-10-484-063-26 Sequence 5, Appl
45	48	100.0	98	5	US-10-343-448-5 Sequence 8, Appl
46	48	100.0	98	5	US-10-679-956-8 Sequence 8, Appl
47	48	100.0	98	5	US-10-367-057-17 Sequence 17, Appl
48	48	100.0	98	6	US-11-077-939-5 Sequence 5, Appl
49	48	100.0	99	4	US-10-115-440-7 Sequence 7, Appl
50	48	100.0	111	4	US-10-472-724-4 Sequence 4, Appl
51	48	100.0	121	4	US-10-267-311-12 Sequence 12, Appl
52	48	100.0	121	5	US-10-679-956-12 Sequence 12, Appl
53	48	100.0	185	6	US-11-072-288-2 Sequence 2, Appl
54	48	100.0	198	4	US-10-267-311-35 Sequence 35, Appl
55	48	100.0	198	5	US-10-679-956-35 Sequence 1, Appl
56	48	100.0	220	4	US-10-000-903-1 Sequence 1, Appl
57	48	100.0	220	5	US-10-899-771-1 Sequence 8, Appl
58	48	100.0	220	5	US-10-899-771-1 Sequence 8, Appl
59	48	100.0	220	5	US-10-000-903-12 Sequence 12, Appl
60	48	100.0	229	5	US-10-899-771-12 Sequence 12, Appl
61	48	100.0	229	5	US-09-367-309A-1 Sequence 5, Appl
62	48	100.0	266	4	US-10-115-440-5 Sequence 3, Appl
63	48	100.0	289	4	US-10-267-311-33 Sequence 33, Appl
64	48	100.0	285	5	US-10-679-956-33 Sequence 28, Appl
65	48	100.0	324	4	US-10-267-311-25 Sequence 25, Appl
66	48	100.0	324	5	US-10-679-956-25 Sequence 25, Appl
67	48	100.0	334	4	US-10-472-724-10 Sequence 10, Appl
68	48	100.0	371	4	US-10-000-903-6 Sequence 6, Appl
69	48	100.0	371	5	US-10-899-771-6 Sequence 6, Appl
70	48	100.0	371	5	US-10-899-771-6 Sequence 6, Appl
71	48	100.0	390	4	US-10-000-903-14 Sequence 14, Appl
72	48	100.0	390	5	US-10-899-771-14 Sequence 14, Appl
73	48	100.0	421	4	US-10-296-770-7 Sequence 7, Appl
74	48	100.0	493	4	US-10-267-311-19 Sequence 19, Appl
75	48	100.0	493	5	US-10-679-956-19 Sequence 19, Appl
76	48	100.0	639	4	US-10-267-311-17 Sequence 17, Appl
77	48	100.0	639	5	US-10-679-956-17 Sequence 17, Appl
78	48	100.0	641	4	US-10-267-311-51 Sequence 51, Appl
79	48	100.0	641	5	US-10-679-956-51 Sequence 51, Appl
80	48	100.0	647	4	US-10-267-311-53 Sequence 53, Appl
81	48	100.0	647	5	US-10-679-956-53 Sequence 53, Appl
82	48	100.0	648	4	US-10-267-311-29 Sequence 29, Appl
83	48	100.0	648	5	US-10-679-956-29 Sequence 29, Appl
84	48	100.0	711	4	US-10-267-311-41 Sequence 41, Appl
85	48	100.0	711	5	US-10-679-956-41 Sequence 41, Appl
86	48	100.0	724	4	US-10-267-311-45 Sequence 45, Appl
87	48	100.0	724	5	US-10-679-956-45 Sequence 45, Appl
88	48	100.0	805	4	US-10-368-046-9 Sequence 9, Appl
89	48	100.0	805	5	US-10-368-046-9 Sequence 9, Appl
90	48	100.0	805	5	US-10-367-367-9 Sequence 9, Appl
91	48	100.0	805	5	US-10-367-367-9 Sequence 9, Appl
92	48	100.0	805	5	US-10-367-367-9 Sequence 9, Appl
93	48	100.0	805	5	US-10-367-367-9 Sequence 9, Appl
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97	48	100.0	805	5	US-10-367-367-9 Sequence 9, Appl
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99	48	100.0	805	5	US-10-367-367-9 Sequence 9, Appl
100	48	100.0	805	5	US-10-367-367-9 Sequence 9, Appl

101	39	81.2	10	4	US-10-365-908-13	Sequence 13, Appl	174	33	68.8	113	5	US-10-487-326-9	Sequence 9, Appl
102	39	81.2	10	5	US-10-871-138-13	Sequence 13, Appl	175	33	68.8	113	5	US-10-486-908-7	Sequence 7, Appl
103	39	81.2	15	4	US-10-648-547-90	Sequence 90, Appl	176	33	68.8	113	5	US-10-486-908-9	Sequence 9, Appl
104	39	81.2	15	4	US-10-306-541-90	Sequence 90, Appl	177	33	68.8	113	5	US-10-512-527-7	Sequence 7, Appl
105	37	77.1	20	3	US-09-828-645-8	Sequence 8, Appl	178	33	68.8	113	5	US-10-512-527-9	Sequence 9, Appl
106	37	77.1	20	5	US-10-827-007-8	Sequence 8, Appl	179	33	68.8	114	3	US-09-726-258-45	Sequence 45, Appl
107	37	77.1	20	5	US-10-827-083-8	Sequence 8, Appl	180	33	68.8	114	3	US-09-726-258-46	Sequence 46, Appl
108	37	77.1	357	5	US-10-450-763-32307	Sequence 32307, A	181	33	68.8	116	4	US-10-762-623-18	Sequence 18, Appl
109	37	77.1	709	4	US-10-425-115-351144	Sequence 351144,	182	33	68.8	116	4	US-09-753-436-66	Sequence 66, Appl
110	36	75.0	112	5	US-10-877-773-19	Sequence 19, Appl	183	33	68.8	116	5	US-10-745-115-66	Sequence 66, Appl
111	36	75.0	112	5	US-10-877-774-19	Sequence 19, Appl	184	33	68.8	127	3	US-09-753-436-45	Sequence 45, Appl
112	35	72.9	33	5	US-09-986-480-404	Sequence 404, App	185	33	68.8	127	3	US-10-163-942-45	Sequence 45, Appl
113	35	72.9	33	5	US-10-863-332-404	Sequence 404, App	186	33	68.8	127	4	US-10-163-942-45	Sequence 45, Appl
114	35	72.9	60	4	US-10-425-115-282959	Sequence 282959,	187	33	68.8	127	4	US-10-424-594-18058	Sequence 158058,
115	35	72.9	148	5	US-09-986-480-271	Sequence 271, App	188	33	68.8	127	5	US-10-745-115-45	Sequence 45, Appl
116	35	72.9	148	5	US-10-863-332-271	Sequence 271, App	189	33	68.8	131	3	US-09-726-258-35	Sequence 35, Appl
117	35	72.9	159	3	US-09-986-480-396	Sequence 396, App	190	33	68.8	131	4	US-10-138-505-6	Sequence 6, Appl
118	35	72.9	159	5	US-10-863-332-396	Sequence 396, App	191	33	68.8	131	4	US-10-138-505-10	Sequence 10, Appl
119	35	72.9	538	4	US-10-437-963-139050	Sequence 139050,	192	33	68.8	131	4	US-10-257-864A-85	Sequence 85, Appl
120	35	72.9	1204	4	US-10-408-765A-2850	Sequence 2850, Ap	193	33	68.8	131	4	US-10-257-864A-87	Sequence 87, Appl
121	35	72.9	1594	4	US-10-473-574-5	Sequence 5, Appl	194	33	68.8	131	4	US-10-221-131-90	Sequence 90, Appl
122	35	72.9	1614	4	US-10-473-574-3	Sequence 3, Appl	195	33	68.8	131	4	US-10-221-131-92	Sequence 92, Appl
123	35	72.9	1614	4	US-10-188-186-60	Sequence 60, Appl	196	33	68.8	131	4	US-10-399-518-114	Sequence 114, App
124	34	70.8	60	4	US-10-443-622-54	Sequence 54, Appl	197	33	68.8	131	4	US-10-399-518-116	Sequence 116, App
125	34	70.8	125	4	US-10-425-115-214410	Sequence 214410,	198	33	68.8	131	5	US-10-399-588-114	Sequence 114, App
126	34	70.8	165	4	US-10-437-963-102683	Sequence 102683,	199	33	68.8	131	5	US-10-399-588-116	Sequence 116, App
127	34	70.8	242	4	US-10-424-599-219024	Sequence 219024,	200	33	68.8	131	5	US-10-645-088A-85	Sequence 85, Appl
128	34	70.8	546	4	US-10-424-599-219019	Sequence 219019,	201	33	68.8	131	5	US-10-645-088A-87	Sequence 87, Appl
129	34	70.8	600	4	US-10-369-493-4038	Sequence 4038, Ap	202	33	68.8	131	5	US-10-627-556-330	Sequence 350, App
130	34	70.8	616	4	US-10-314-519-2	Sequence 2, Appl	203	33	68.8	139	4	US-10-372-481-29	Sequence 29, Appl
131	34	70.8	622	4	US-10-437-963-127345	Sequence 127345,	204	33	68.8	139	4	US-10-371-797-22	Sequence 29, Appl
132	34	70.8	630	4	US-10-314-519-4	Sequence 4, Appl	205	33	68.8	159	4	US-10-767-701-62756	Sequence 62756, A
133	34	70.8	840	5	US-10-450-763-39157	Sequence 39157, A	206	33	68.8	199	4	US-10-437-963-160384	Sequence 160384,
134	34	70.8	1192	6	US-11-097-143-5997	Sequence 5997, Ap	207	33	68.8	219	3	US-09-726-258-72	Sequence 72, Appl
135	34	70.8	1599	4	US-10-425-115-303878	Sequence 303878,	208	33	68.8	219	4	US-10-226-435A-11	Sequence 11, Appl
136	34	70.8	2958	6	US-11-097-143-40896	Sequence 40896, A	209	33	68.8	219	4	US-10-487-326-11	Sequence 11, Appl
137	33	68.8	31	3	US-09-956-206A-15	Sequence 15, Appl	210	33	68.8	219	5	US-10-487-326-11	Sequence 11, Appl
138	33	68.8	31	5	US-10-965-616-15	Sequence 15, Appl	211	33	68.8	219	5	US-10-486-908-11	Sequence 11, Appl
139	33	68.8	59	4	US-10-425-115-199908	Sequence 199908,	212	33	68.8	220	4	US-10-512-527-11	Sequence 11, Appl
140	33	68.8	65	4	US-10-425-115-230832	Sequence 230832,	213	33	68.8	220	5	US-10-737-208A-5	Sequence 5, Appl
141	33	68.8	72	4	US-10-425-115-222943	Sequence 222943,	214	33	68.8	220	6	US-11-040-071-2	Sequence 2, Appl
142	33	68.8	97	4	US-10-424-599-145843	Sequence 145843,	215	33	68.8	242	3	US-09-726-258-42	Sequence 42, Appl
143	33	68.8	100	3	US-09-840-459-27	Sequence 27, Appl	216	33	68.8	242	3	US-09-726-258-51	Sequence 51, Appl
144	33	68.8	100	4	US-10-866-773-27	Sequence 27, Appl	217	33	68.8	242	3	US-09-726-258-56	Sequence 56, Appl
145	33	68.8	100	4	US-10-766-610-27	Sequence 27, Appl	218	33	68.8	245	4	US-09-726-258-62	Sequence 62, Appl
146	33	68.8	100	4	US-10-733-563-27	Sequence 27, Appl	219	33	68.8	245	4	US-10-138-505-40	Sequence 40, Appl
147	33	68.8	112	3	US-09-518-737-4	Sequence 14, Appl	220	33	68.8	245	4	US-10-257-864A-95	Sequence 95, Appl
148	33	68.8	112	4	US-10-741-657A-14	Sequence 14, Appl	221	33	68.8	245	4	US-10-221-131-100	Sequence 100, App
149	33	68.8	112	4	US-10-741-657A-20	Sequence 20, Appl	222	33	68.8	245	4	US-10-399-518-124	Sequence 124, App
150	33	68.8	112	5	US-10-723-748-4	Sequence 4, Appl	223	33	68.8	245	5	US-10-399-585-123	Sequence 123, App
151	33	68.8	113	4	US-10-826-435A-9	Sequence 9, Appl	224	33	68.8	245	5	US-10-645-088A-95	Sequence 95, Appl
152	33	68.8	113	4	US-10-826-435A-7	Sequence 7, Appl	225	33	68.8	245	4	US-10-257-864A-97	Sequence 97, Appl
153	33	68.8	113	4	US-10-668-370-675	Sequence 675, App	226	33	68.8	256	4	US-10-257-864A-98	Sequence 98, Appl
154	33	68.8	113	4	US-10-668-370-677	Sequence 677, App	227	33	68.8	256	4	US-10-221-131-102	Sequence 102, App
155	33	68.8	113	4	US-10-668-370-679	Sequence 679, App	228	33	68.8	256	4	US-10-221-131-103	Sequence 103, App
156	33	68.8	113	4	US-10-668-370-681	Sequence 681, App	229	33	68.8	256	4	US-10-399-518-126	Sequence 126, App
157	33	68.8	113	4	US-10-668-370-683	Sequence 683, App	230	33	68.8	256	4	US-10-399-518-127	Sequence 127, App
158	33	68.8	113	4	US-10-668-370-685	Sequence 685, App	231	33	68.8	256	5	US-10-399-585-125	Sequence 125, App
159	33	68.8	113	4	US-10-668-370-687	Sequence 687, App	232	33	68.8	256	5	US-10-399-585-126	Sequence 126, App
160	33	68.8	113	4	US-10-668-370-689	Sequence 689, App	233	33	68.8	256	5	US-10-645-085A-97	Sequence 97, Appl
161	33	68.8	113	4	US-10-668-496-2006	Sequence 2006, Ap	234	33	68.8	256	5	US-10-645-085A-98	Sequence 98, Appl
162	33	68.8	113	4	US-10-668-496-2008	Sequence 2008, Ap	235	33	68.8	262	5	US-10-627-556-352	Sequence 352, App
163	33	68.8	113	4	US-10-668-496-2010	Sequence 2010, Ap	236	33	68.8	262	5	US-10-627-556-356	Sequence 356, App
164	33	68.8	113	4	US-10-668-496-2012	Sequence 2012, Ap	237	33	68.8	271	4	US-10-138-505-10	Sequence 30, Appl
165	33	68.8	113	4	US-10-668-496-2014	Sequence 2014, Ap	238	33	68.8	271	4	US-10-138-505-14	Sequence 34, Appl
166	33	68.8	113	4	US-10-668-496-2016	Sequence 2016, Ap	239	33	68.8	271	4	US-10-257-864A-91	Sequence 91, Appl
167	33	68.8	113	4	US-10-668-496-2018	Sequence 2018, Ap	240	33	68.8	271	4	US-10-257-864A-93	Sequence 93, Appl
168	33	68.8	113	4	US-10-668-496-2020	Sequence 2020, Ap	241	33	68.8	271	4	US-10-221-131-95	Sequence 95, Appl
169	33	68.8	113	4	US-10-487-322-7	Sequence 7, Appl	242	33	68.8	271	4	US-10-221-131-96	Sequence 96, Appl
170	33	68.8	113	4	US-10-487-322-9	Sequence 9, Appl	243	33	68.8	271	4	US-10-221-131-98	Sequence 98, Appl
171	33	68.8	113	4	US-10-737-208A-1	Sequence 10, Appl	244	33	68.8	271	4	US-10-399-518-120	Sequence 120, App
172	33	68.8	113	5	US-10-789-090-10	Sequence 10, Appl	245	33	68.8	271	4	US-10-399-518-122	Sequence 122, App
173	33	68.8	113	5	US-10-487-326-7	Sequence 7, Appl	246	33	68.8	271	5	US-10-399-585-119	Sequence 119, App

247	33	68.8	271	5	US-10-399-585-121	Sequence 121, App	320	66.7	212	4	US-10-437-963-131522	Sequence 131522,
248	33	68.8	271	5	US-10-645-085A-91	Sequence 91, Appl	321	66.7	241	4	US-10-424-599-198155	Sequence 198155,
249	33	68.8	271	5	US-10-645-085A-93	Sequence 93, Appl	322	66.7	272	4	US-10-424-599-168451	Sequence 168451,
250	33	68.8	274	4	US-10-138-505-26	Sequence 26, Appl	323	66.7	400	5	US-10-972-024-280	Sequence 280, App
251	33	68.8	274	4	US-10-138-505-12	Sequence 33, Appl	324	66.7	411	5	US-10-450-763-4423	Sequence 44243, A
252	33	68.8	274	4	US-10-257-864A-90	Sequence 90, Appl	325	66.7	455	6	US-11-097-143-42738	Sequence 42738, A
253	33	68.8	274	4	US-10-257-864A-92	Sequence 92, Appl	326	66.7	469	4	US-10-282-122A-65124	Sequence 65124, A
254	33	68.8	274	4	US-10-221-131-97	Sequence 97, Appl	327	66.7	480	4	US-10-369-493-9031	Sequence 9031, Ap
255	33	68.8	274	4	US-10-399-518-119	Sequence 119, App	328	66.7	493	4	US-10-108-260A-4124	Sequence 4124, Ap
256	33	68.8	274	4	US-10-399-518-121	Sequence 121, App	329	66.7	498	4	US-10-767-701-44309	Sequence 44309, A
257	33	68.8	274	5	US-10-399-585-118	Sequence 118, App	330	66.7	608	4	US-10-425-114-72610	Sequence 72610, A
258	33	68.8	274	5	US-10-399-585-120	Sequence 120, App	331	66.7	648	5	US-10-732-923-22815	Sequence 22803, A
259	33	68.8	274	5	US-10-645-085A-90	Sequence 90, Appl	332	66.7	648	5	US-10-732-923-22809	Sequence 22809, A
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262	33	68.8	324	4	US-10-425-115-235782	Sequence 235782,	335	66.7	804	4	US-10-437-963-183489	Sequence 183489,
263	33	68.8	324	4	US-10-437-963-160386	Sequence 160386,	336	66.7	804	4	US-10-437-963-183489	Sequence 183489,
264	33	68.8	331	3	US-09-833-245-1917	Sequence 1917, Ap	337	66.7	871	4	US-10-425-114-72610	Sequence 72610, A
265	33	68.8	331	3	US-10-425-114-11311	Sequence 71311, A	338	66.7	911	4	US-10-437-963-112571	Sequence 112571,
266	33	68.8	357	4	US-10-425-114-4164	Sequence 44164, A	339	66.7	913	4	US-10-425-115-331034	Sequence 331034,
267	33	68.8	409	3	US-09-833-245-1503	Sequence 1503, Ap	340	66.7	956	4	US-10-425-115-331036	Sequence 331034, A
268	33	68.8	463	4	US-10-425-114-67932	Sequence 67932, A	341	66.7	1874	4	US-10-437-963-147331	Sequence 147331,
269	33	68.8	474	4	US-10-270-555-3	Sequence 3, Appli	342	66.7	1885	4	US-10-437-963-147331	Sequence 147331,
270	33	68.8	479	6	US-11-040-071-9	Sequence 9, Appli	343	66.7	2027	5	US-10-450-763-38257	Sequence 38257, A
271	33	68.8	495	5	US-10-627-556-358	Sequence 358, App	344	66.6	53	5	US-10-425-115-186247	Sequence 186247, A
272	33	68.8	495	5	US-10-627-556-360	Sequence 360, App	345	66.6	53	5	US-10-425-115-186247	Sequence 186247, A
273	33	68.8	507	4	US-10-239-656-47	Sequence 47, Appl	346	66.6	55	4	US-10-425-115-259473	Sequence 259473,
274	33	68.8	510	4	US-10-239-656-48	Sequence 48, Appl	347	66.6	57	4	US-10-424-599-179952	Sequence 179052,
275	33	68.8	510	4	US-10-239-656-49	Sequence 49, Appl	348	66.6	59	4	US-10-424-599-245303	Sequence 245503,
276	33	68.8	532	6	US-11-038-098-18	Sequence 18, Appl	349	66.6	69	3	US-09-764-891-4415	Sequence 4415, Ap
277	33	68.8	533	4	US-10-257-864A-96	Sequence 96, Appl	350	66.6	69	4	US-10-437-963-175868	Sequence 175868,
278	33	68.8	533	4	US-10-221-131-101	Sequence 101, App	351	66.6	70	3	US-10-425-115-345645	Sequence 345645,
279	33	68.8	533	4	US-10-399-518-125	Sequence 125, App	352	66.6	70	3	US-09-933-767-971	Sequence 971, App
280	33	68.8	533	5	US-10-399-585-124	Sequence 124, App	353	66.6	70	4	US-10-004-860-971	Sequence 971, App
281	33	68.8	533	5	US-10-645-085A-96	Sequence 96, Appl	354	66.6	76	4	US-10-023-282-971	Sequence 971, App
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283	33	68.8	605	4	US-10-425-115-267959	Sequence 267959,	356	66.6	76	4	US-10-425-115-331875	Sequence 331875,
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285	33	68.8	632	6	US-10-425-114-58621	Sequence 58621, A	358	66.6	86	3	US-09-864-008A-210	Sequence 210, App
286	33	68.8	632	6	US-11-097-143-8247	Sequence 8247, A	359	66.6	86	4	US-10-425-115-239376	Sequence 239376,
287	33	68.8	634	4	US-10-425-114-54045	Sequence 54045, A	360	66.6	100	3	US-09-840-459-231	Sequence 231, Appl
288	33	68.8	641	5	US-10-450-763-40145	Sequence 40145, A	361	66.6	100	4	US-10-766-773-23	Sequence 23, Appl
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290	33	68.8	670	3	US-09-833-245-1304	Sequence 1304, Ap	363	66.6	100	4	US-10-733-563-33	Sequence 23, Appl
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293	33	68.8	896	5	US-10-450-763-34798	Sequence 34798, A	366	66.6	126	4	US-10-425-115-197153	Sequence 197153,
294	33	68.8	947	5	US-10-417-375-32	Sequence 32, Appl	367	66.6	127	4	US-10-097-065-219	Sequence 219, App
295	33	68.8	957	5	US-10-753-267-84	Sequence 84, Appl	368	66.6	127	4	US-10-372-876-219	Sequence 219, App
296	33	68.8	957	5	US-10-852-335A-180	Sequence 180, App	369	66.6	132	4	US-10-006-773-11	Sequence 11, Appl
297	33	68.8	1067	5	US-10-450-763-38408	Sequence 38408, A	370	66.6	138	4	US-10-369-493-9126	Sequence 9126, Ap
298	33	68.8	1152	4	US-10-369-493-5802	Sequence 5802, Ap	371	66.6	144	4	US-10-029-386-77420	Sequence 27420, A
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305	32	66.7	58	4	US-10-425-115-353386	Sequence 353386,	378	66.6	204	5	US-10-678-712-3	Sequence 3, Appli
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307	32	66.7	71	4	US-10-437-963-204358	Sequence 204358,	380	66.6	220	5	US-10-282-122A-71829	Sequence 71829, A
308	32	66.7	75	4	US-10-424-599-223295	Sequence 223295,	381	66.6	262	5	US-10-774-355A-2579	Sequence 2579, Ap
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			157	4	US-10-424-599-207934	Sequence 207934,						Sequence 370, App

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458	31	64.6	1709	5	US-10-450-763-36414	Sequence 36414, A	531	30	62.5	118	4	US-10-012-955A-11	Sequence 145, App
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461	31	64.6	1709	5	US-10-450-763-39997	Sequence 39997, A	534	30	62.5	131	3	US-09-947-839-11	Sequence 11, Appl1
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544	30	62.5	167	4	US-10-471-475A-21	Sequence 21, Appl	617	30	62.5	611	5	US-10-873-595-6	Sequence 6, Appl1
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556	30	62.5	220	4	US-11-097-143-35010	Sequence 35010, A	629	30	62.5	673	4	US-10-419-723-6	Sequence 6, Appl1
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561	30	62.5	232	4	US-10-767-701-31670	Sequence 31670, A	634	30	62.5	679	5	US-10-868-397-6	Sequence 6, Appl1
562	30	62.5	252	3	US-09-887-583-4	Sequence 4, Appl1	635	30	62.5	679	5	US-10-735-973-6	Sequence 6, Appl1
563	30	62.5	252	3	US-10-683-547-4	Sequence 4, Appl1	636	30	62.5	680	6	US-11-097-143-19410	Sequence 19410, A
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566	30	62.5	260	3	US-09-813-444-2	Sequence 2, Appl1	639	30	62.5	687	4	US-10-255-120-8	Sequence 8, Appl1
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568	30	62.5	274	4	US-10-292-798-2062	Sequence 2062, Ap	641	30	62.5	689	5	US-10-735-973-4	Sequence 4, Appl1
569	30	62.5	274	4	US-10-437-963-116625	Sequence 116625, Sequence	642	30	62.5	698	4	US-10-424-599-146699	Sequence 146699, A
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574	30	62.5	314	4	US-10-767-701-43878	Sequence 43878, A	647	30	62.5	745	4	US-10-469-597-50	Sequence 50, Appl1
575	30	62.5	315	4	US-10-085-198-182	Sequence 182, App	648	30	62.5	745	4	US-10-076-597-50	Sequence 50, Appl1
576	30	62.5	332	3	US-09-922-181A-6940	Sequence 6940, Ap	649	30	62.5	745	4	US-10-419-723-4	Sequence 4, Appl1
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587	30	62.5	418	4	US-10-112-944-341	Sequence 341, App	660	30	62.5	764	4	US-10-425-114-58448	Sequence 58448, A
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597	30	62.5	507	4	US-10-732-923-16759	Sequence 16759, A	670	30	62.5	911	4	US-10-000-845-59	Sequence 59, Appl
598	30	62.5	507	4	US-10-067-514-10	Sequence 10, Appl	671	30	62.5	921	4	US-10-389-586-1452	Sequence 1452, App
599	30	62.5	507	4	US-10-419-723-10	Sequence 10, Appl	672	30	62.5	929	4	US-10-257-909A-76	Sequence 26, Appl
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605	30	62.5	518	4	US-10-682-722-4	Sequence 4, Appl1	678	30	62.5	1465	4	US-10-083-357-13110	Sequence 13110, Appl
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688	29.5	61.5	764	4	US-10-108-260A-4398	Sequence 4398, Ap	761	29	60.4	110	4	US-10-425-115-207934	Sequence 207934,
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718	29	60.4	66	4	US-10-437-963-145522	Sequence 145522, A	791	29	60.4	145	4	US-10-177-293-18231	Sequence 182, App
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842	29	60.4	282	4	US-10-437-963-113001	Sequence 113001, A	915	29	60.4	379	4	US-10-437-963-165621	Sequence 165621, A
843	29	60.4	283	3	US-09-846-5908-6	Sequence 6, Appl	916	29	60.4	379	5	US-10-450-763-46691	Sequence 46691, A
844	29	60.4	285	3	US-09-883-758-4	Sequence 4, Appl	917	29	60.4	380	4	US-10-425-115-305926	Sequence 305926, A
845	29	60.4	282	5	US-10-450-763-35966	Sequence 35966, A	918	29	60.4	380	4	US-10-425-115-305926	Sequence 305926, A
846	29	60.4	296	3	US-09-782-974C-12	Sequence 12, Appl	919	29	60.4	395	5	US-10-450-763-36285	Sequence 36285, A
847	29	60.4	286	4	US-10-425-115-888151	Sequence 288151, A	920	29	60.4	395	5	US-10-450-763-36285	Sequence 36285, A
848	29	60.4	296	5	US-10-467-92A-12	Sequence 12, Appl	921	29	60.4	405	5	US-10-450-763-60689	Sequence 60689, A
849	29	60.4	296	5	US-10-975-979-12	Sequence 12, Appl	922	29	60.4	405	5	US-10-450-763-60689	Sequence 60689, A
850	29	60.4	296	5	US-10-969-727-12	Sequence 12, Appl	923	29	60.4	408	4	US-10-353-721-15	Sequence 15, Appl
851	29	60.4	305	4	US-10-188-012-5	Sequence 5, Appl	924	29	60.4	409	4	US-10-353-721-14	Sequence 14, Appl
852	29	60.4	305	4	US-10-188-012-7	Sequence 7, Appl	925	29	60.4	409	4	US-10-424-599-260985	Sequence 260985, A
853	29	60.4	305	5	US-10-663-497-5	Sequence 5, Appl	926	29	60.4	410	4	US-10-425-114-63843	Sequence 63843, A
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856	29	60.4	308	4	US-10-017-161-768	Sequence 768, App	929	29	60.4	434	4	US-10-425-114-71857	Sequence 71857, A
857	29	60.4	314	4	US-10-210-172-186	Sequence 186, App	930	29	60.4	439	5	US-09-841-132-524	Sequence 524, App
858	29	60.4	314	5	US-10-635-398-88	Sequence 88, App	931	29	60.4	439	5	US-10-872-155-524	Sequence 524, App
859	29	60.4	319	5	US-10-329-079-57	Sequence 57, Appl	932	29	60.4	441	4	US-10-425-115-211265	Sequence 211265, A
860	29	60.4	320	4	US-10-210-172-190	Sequence 190, App	933	29	60.4	441	4	US-10-282-122A-48623	Sequence 48623, A
861	29	60.4	320	4	US-10-210-172-194	Sequence 194, App	934	29	60.4	448	4	US-10-156-240-17	Sequence 17, Appl
862	29	60.4	320	5	US-10-635-398-80	Sequence 80, Appl	935	29	60.4	448	4	US-10-289-762-1114	Sequence 1114, Ap
863	29	60.4	320	5	US-10-635-398-92	Sequence 92, Appl	936	29	60.4	448	4	US-10-424-599-236752	Sequence 236752, A
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866	29	60.4	329	4	US-10-424-599-61201	Sequence 161201, A	939	29	60.4	476	4	US-10-017-161-758	Sequence 758, App
867	29	60.4	342	4	US-10-092-135-2	Sequence 2, Appl	940	29	60.4	476	4	US-10-425-114-45606	Sequence 45606, A
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872	29	60.4	346	3	US-09-782-974C-80	Sequence 80, Appl	945	29	60.4	492	4	US-10-425-114-62637	Sequence 62637, A
873	29	60.4	346	4	US-10-094-417-8	Sequence 8, Appl	946	29	60.4	492	4	US-10-425-114-62637	Sequence 62637, A
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875	29	60.4	346	4	US-10-079-384-18	Sequence 18, Appl	948	29	60.4	499	4	US-10-437-963-115293	Sequence 115293, A
876	29	60.4	346	4	US-10-240-842-2	Sequence 2, Appl	949	29	60.4	504	4	US-10-437-963-157564	Sequence 157564, A
877	29	60.4	346	4	US-10-225-567A-668	Sequence 668, App	950	29	60.4	504	4	US-10-437-963-157560	Sequence 157560, A
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881	29	60.4	346	4	US-10-076-260-2	Sequence 2, Appl	954	29	60.4	525	4	US-10-437-963-110482	Sequence 110482, A
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883	29	60.4	346	4	US-10-044-643-5	Sequence 5, Appl	956	29	60.4	528	4	US-10-425-115-210172	Sequence 210172, A
884	29	60.4	346	4	US-10-296-081-3	Sequence 3, Appl	957	29	60.4	545	4	US-10-437-963-154817	Sequence 154817, A
885	29	60.4	346	4	US-10-210-172-178	Sequence 178, App	958	29	60.4	557	6	US-11-097-143-15603	Sequence 377, App
886	29	60.4	346	4	US-10-210-172-180	Sequence 180, App	959	29	60.4	557	6	US-10-437-963-15603	Sequence 15603, A
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889	29	60.4	346	4	US-10-210-172-188	Sequence 188, App	962	29	60.4	584	5	US-10-505-886-88	Sequence 86, Appl
890	29	60.4	346	4	US-10-343-650A-8	Sequence 8, Appl	963	29	60.4	586	5	US-10-450-763-14991	Sequence 34991, A
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892	29	60.4	346	4	US-10-332-032-1	Sequence 1, Appl	965	29	60.4	618	5	US-10-450-763-65180	Sequence 46180, A
893	29	60.4	346	4	US-10-321-807-24	Sequence 24, Appl	966	29	60.4	623	4	US-10-425-114-33177	Sequence 43177, A
894	29	60.4	346	4	US-10-314-048A-24	Sequence 24, Appl	967	29	60.4	641	5	US-10-262-666-8	Sequence 8, Appl
895	29	60.4	346	4	US-10-482-151-6	Sequence 6, Appl	968	29	60.4	641	5	US-10-511-362-15	Sequence 15, Appl
896	29	60.4	346	5	US-10-897-815-24	Sequence 24, Appl	969	29	60.4	641	5	US-10-450-763-50972	Sequence 50972, A
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981 29 60.4 744 4 US-10-262-666-64 Sequence 64, Appl
982 29 60.4 757 5 US-10-450-763-37767 Sequence 37767, A
983 29 60.4 791 5 US-10-450-763-53910 Sequence 53910, A
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ALIGNMENTS

RESULT 1

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US-10-161-097-41
; Sequence 41, Application US/10161097
; Publication No. US20030096404A1
; GENERAL INFORMATION:
; APPLICANT: ROSENZWEIG, Michael
; APPLICANT: PYKETT, Mark J.
; APPLICANT: SCADDEN, David T.
; APPLICANT: POZNANSKY, Mark C.
; TITLE OF INVENTION: LYMPHOID TISSUE-SPECIFIC CELL PRODUCTION
; TITLE OF INVENTION: FROM HEMATOPOIETIC PROGENITOR CELLS IN THREE-DIMENSIONAL
; TITLE OF INVENTION: DEVICES
; FILE REFERENCE: C1005/7012/KA/ERG
; CURRENT APPLICATION NUMBER: US/10/161,097
; CURRENT FILING DATE: 2002-05-31
; PRIOR APPLICATION NUMBER: US/09/574,749
; PRIOR FILING DATE: 2002-05-31
; PRIOR APPLICATION NUMBER: US 60/107,972
; PRIOR FILING DATE: 1998-11-12
; PRIOR APPLICATION NUMBER: PCT/US99/26795
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: US 09/524,749
; PRIOR FILING DATE: 2000-05-18
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 41
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; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Papilloma source
US-10-161-097-41
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DB 1 RLCVOSTHV 9

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US-10-133-210-274

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; Sequence 274, Application US/10133210
; Publication No. US20030103964A1
; GENERAL INFORMATION:
; APPLICANT: Delisi, Charles
; APPLICANT: Berzofsky, Jay
; APPLICANT: Gulukota, Kamalakher
; APPLICANT: Vaccaro, Dennis
; APPLICANT: Wang, Zhiping
; APPLICANT: Zhang, Chao
; TITLE OF INVENTION: METHODS FOR DESIGNING MOLECULAR CONJUGATES AND
; TITLE OF INVENTION: COMPOSITIONS THEREOF
; FILE REFERENCE: BU-035AX
; CURRENT APPLICATION NUMBER: US/10/133,210
; CURRENT FILING DATE: 2002-04-26
; NUMBER OF SEQ ID NOS: 281
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 274
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-133-210-274
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DB 1 RLCVOSTHV 9

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; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHAEL
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: U75C:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-16
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DB 1 RLCVOSTHV 9

RESULT 4
US-09-891-823-17
; Sequence 17, Application US/09891823
; Publication No. US20020110566A1
; GENERAL INFORMATION:
; APPLICANT: Neefe, John R.

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; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/09/891,823
; PRIOR FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: FastSeq for Windows Version 4.0
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US-09-891-823-17
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Db 2 RLCVOSTHV 10
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; Publication No. US20030170268A1
; GENERAL INFORMATION:
; APPLICANT: Neeffe, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/10/365,908
; CURRENT FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US/09/891,823
; PRIOR FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
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; SEQ ID NO 17
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; ORGANISM: Human papilloma virus
US-10-365-908-17

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Db 2 RLCVOSTHV 10
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; Publication No. US20040235741A1
; GENERAL INFORMATION:
; APPLICANT: Neeffe, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
```

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; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/10/871,138
; CURRENT FILING DATE: 2004-06-18
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; PRIOR FILING DATE: 2001-06-26
; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
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; SOFTWARE: FastSeq for Windows Version 4.0
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; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-10-871-138-17
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Db 2 RLCVOSTHV 10
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US-10-648-547-77
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; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mittelman, Abraham
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 77
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; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-77
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Best Local Similarity 100.0%; Pred. No. 0.064;
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Db 2 RLCVOSTHV 9
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RESULT 8
US-10-648-547-83
; Sequence 83, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mittelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
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; SEQ ID NO 83
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; ORGANISM: human papillomavirus
US-10-648-547-83
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Best Local Similarity 100.0%; Pred. No. 0.064;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 RLCVOSTHV 9
Db      5 RLCVOSTHV 13
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RESULT 9
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; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 89
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-89
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Query Match          100.0%; Score 48; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.064;
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Db      6 RLCVOSTHV 14
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RESULT 10
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; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 93
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-93
```

```

Query Match          100.0%; Score 48; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.064;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```

QY      1 RLCVOSTHV 9
Db      7 RLCVOSTHV 15
```

```

RESULT 11
; Sequence 94, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 94
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-94
```

```

Query Match          100.0%; Score 48; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.064;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RLCVOSTHV 9
Db      4 RLCVOSTHV 12
```

```

RESULT 12
; Sequence 16, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUEVLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E7 60-74
US-10-476-570-16
```

```

Query Match          100.0%; Score 48; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.064;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```


Db 7 RLCVOSTHV 15

RESULT 13

US-10-476-570-48
; Sequence 48, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MILIERE, Bernard
; APPLICANT: BOUGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 48
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E7 65-79
US-10-476-570-48

Query Match 100.0%; Score 48; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.064;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVOSTHV 9
Db 2 RLCVOSTHV 10

RESULT 14

US-10-306-541-77
; Sequence 77, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/4
; CURRENT APPLICATION NUMBER: US/10/306,541
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 2001-11-23
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 77
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-306-541-77

Query Match 100.0%; Score 48; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.064;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVOSTHV 9
Db 1 RLCVOSTHV 9

RESULT 15

US-10-306-541-83
; Sequence 83, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/4
; CURRENT APPLICATION NUMBER: US/10/306,541
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 2001-11-23
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 83
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-306-541-83

Query Match 100.0%; Score 48; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.064;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVOSTHV 9
Db 5 RLCVOSTHV 13

RESULT 16

US-10-306-541-89
; Sequence 89, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/4
; CURRENT APPLICATION NUMBER: US/10/306,541
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 2001-11-23
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 89
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-306-541-89

Query Match 100.0%; Score 48; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.064;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVOSTHV 9
Db 6 RLCVOSTHV 14

RESULT 17

US-10-306-541-93
; Sequence 93, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/4
; CURRENT APPLICATION NUMBER: US/10/306,541
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 2001-11-23

```

; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 93
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-306-541-93
```

```

Query Match          100.0%; Score 48; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.064;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RLCVOSTHV 9
    |||||
Db 7 RLCVOSTHV 15
```

```

RESULT 18
US-10-306-541-94
; Sequence 94, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
; APPLICANT: Mittleman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/4
; CURRENT APPLICATION NUMBER: US/10/306,541
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 2001-11-23
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 94
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-306-541-94
```

```

Query Match          100.0%; Score 48; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.064;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RLCVOSTHV 9
    |||||
Db 4 RLCVOSTHV 12
```

```

RESULT 19
US-10-355-268-16
; Sequence 16, Application US/10355268
; Publication No. US20030211996A1
; GENERAL INFORMATION:
; APPLICANT: GOMANS, Eric J.
; TITLE OF INVENTION: IMPROVED VIRUS LIKE PARTICLES BASED ON SMALL ENVELOPE PROTEIN PRO
; FILE REFERENCE: P07848US00/BAS
; CURRENT APPLICATION NUMBER: US/10/355,268
; CURRENT FILING DATE: 2003-01-31
; PRIOR APPLICATION NUMBER: PCT/AU01/00935
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: AU PQ9120
; PRIOR FILING DATE: 2000-07-31
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 16
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Hepatitis B virus
US-10-355-268-16
```

```

Query Match          100.0%; Score 48; DB 4; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.076;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```

QY 1 RLCVOSTHV 9
    |||||
Db 5 RLCVOSTHV 13
```

```

RESULT 20
US-09-888-721-7
; Sequence 7, Application US/09888721
; Patent No. US20020132990A1
; GENERAL INFORMATION:
; APPLICANT: Huston, James S.
; APPLICANT: Wils, Pierre
; APPLICANT: Zhu, Quan
; APPLICANT: Laurent, Olivier
; APPLICANT: Marasco, Wayne A.
; APPLICANT: Scherman, Daniel
; TITLE OF INVENTION: BIOENGINEERED VEHICLES FOR TARGETED NUCLEIC ACID
; FILE REFERENCE: 23611-A USA
; CURRENT APPLICATION NUMBER: US/09/888,721
; CURRENT FILING DATE: 2001-06-25
; PRIOR APPLICATION NUMBER: 60/213,653
; PRIOR FILING DATE: 2000-06-23
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 19
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-09-888-721-7
```

```

Query Match          100.0%; Score 48; DB 3; Length 19;
Best Local Similarity 100.0%; Pred. No. 0.08;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RLCVOSTHV 9
    |||||
Db 7 RLCVOSTHV 15
```

```

RESULT 21
US-10-668-400-9
; Sequence 9, Application US/10668400
; Publication No. US20040058859A1
; GENERAL INFORMATION:
; APPLICANT: Bay, Sylvie
; APPLICANT: Cantacuzene, Daniele
; APPLICANT: Leclerc, Claude
; APPLICANT: Lo-Man, Richard
; TITLE OF INVENTION: MULTIPLE ANTIGEN GLYCOPEPTIDE CARBOHYDRATE,
; FILE REFERENCE: 102.166A-1
; CURRENT APPLICATION NUMBER: US/10/668,400
; CURRENT FILING DATE: 2003-09-23
; PRIOR APPLICATION NUMBER: US 09/049,847
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: US 60/041,726
; PRIOR FILING DATE: 1997-03-27
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 19
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
; FEATURE:
; NAME/KEY: MISC FEATURE
; OTHER INFORMATION: HPV 16 E7 PEPTIDE
US-10-668-400-9
```

```

Query Match          100.0%; Score 48; DB 4; Length 19;
Best Local Similarity 100.0%; Pred. No. 0.08;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

Qy 1 RLCVOSTHV 9
Db 7 RLCVOSTHV 15

RESULT 22
US-10-479-541-1
; Sequence 1, Application US/10479541
; Publication No. US20040151723A1
; GENERAL INFORMATION:
; APPLICANT: Kirin Beer Kabushiki Kaisha
; TITLE OF INVENTION: Novel E7 antigen epitope from human papillomavirus and
; TITLE OF INVENTION: CD4+ T cells activated thereby
; FILE REFERENCE: 137240PX
; CURRENT APPLICATION NUMBER: US/10/479,541
; CURRENT FILING DATE: 2003-12-04
; PRIOR APPLICATION NUMBER: 13803/2001
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; TYPE: PRT
; LENGTH: 19
; ORGANISM: Human papillomavirus type 16
US-10-479-541-1

Query Match 100.0%; Score 48; DB 4; Length 19;
Best Local Similarity 100.0%; Pred. No. 0.084; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;

Qy 1 RLCVOSTHV 9
Db 5 RLCVOSTHV 13

RESULT 23
US-09-828-645-4
; Sequence 4, Application US/09828645
; Publication No. US20030027750A1
; GENERAL INFORMATION:
; APPLICANT: Hu, Yao Xiong
; TITLE OF INVENTION: Immunological Methodology for Discerning Human Papillomavirus
; FILE REFERENCE: 146-1-002
; CURRENT APPLICATION NUMBER: US/09/828,645
; CURRENT FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: US 60/194,796
; PRIOR FILING DATE: 2000-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from the E7 early region of HPV-16
US-09-828-645-4

Query Match 100.0%; Score 48; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.084; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;

Qy 1 RLCVOSTHV 9
Db 6 RLCVOSTHV 14

RESULT 24
US-10-432-465-49
; Sequence 49, Application US/10432465
; Publication No. US2004009179A1
; GENERAL INFORMATION:
; APPLICANT: Nieland, John

; APPLICANT: Kaufmann, Andreas
; APPLICANT: Kather, Angela
; APPLICANT: Schinz, Manuela
; TITLE OF INVENTION: T-Cell Epitopes of the Papillomavirus L1
; TITLE OF INVENTION: Protein and E7 Protein and their Use in Diagnosis and
; TITLE OF INVENTION: Therapy
; FILE REFERENCE: 50125/077001
; CURRENT APPLICATION NUMBER: US/10/432,465
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: PCT/EP01/14037
; PRIOR FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: DE 10059631.2
; PRIOR FILING DATE: 2000-12-01
; NUMBER OF SEQ ID NOS: 116
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 49
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-432-465-49

Query Match 100.0%; Score 48; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.084; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;

Qy 1 RLCVOSTHV 9
Db 11 RLCVOSTHV 19

RESULT 25
US-10-890-526-74
; Sequence 74, Application US/10890526
; Publication No. US20040258708A1
; GENERAL INFORMATION:
; APPLICANT: Joehms, Ingrid
; APPLICANT: Nieland, John
; TITLE OF INVENTION: Cytotoxic T-Cell Epitopes of the
; TITLE OF INVENTION: Papilloma Virus L1-Protein and Use Thereof in Diagnosis and
; FILE REFERENCE: 50125/036001
; CURRENT APPLICATION NUMBER: US/10/890,526
; CURRENT FILING DATE: 2004-07-13
; PRIOR APPLICATION NUMBER: US/09/980,177
; PRIOR FILING DATE: 2002-05-02
; PRIOR APPLICATION NUMBER: PCT/EP00/05006
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: DE 19925199.1
; PRIOR FILING DATE: 1999-06-01
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 74
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-890-526-74

Query Match 100.0%; Score 48; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.084; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;

Qy 1 RLCVOSTHV 9
Db 11 RLCVOSTHV 19

RESULT 26
US-10-827-007-4
; Sequence 4, Application US/10827007
; Publication No. US20050042599A1
; GENERAL INFORMATION:
; APPLICANT: Impact Diagnostics
; APPLICANT: Hu, Yao Xiong

```

; TITLE OF INVENTION: Immunological Methodology for Discerning Human Papillomavirus
; TITLE OF INVENTION: Contemplating Peptides from the E7 Early Coding Region of HPV 16
; FILE REFERENCE: 3352-2-1-3
; CURRENT APPLICATION NUMBER: US/10/827,007
; CURRENT FILING DATE: 2004-04-19
; PRIOR APPLICATION NUMBER: US 09/828,645
; PRIOR FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: US 60/194,796
; PRIOR FILING DATE: 2000-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 4
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Derived from the E7 early coding region of HPV-16
US-10-827-007-4
```

```

Query Match          100.0%; Score 48; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.084;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RLCVOSTHV 9
    |||||
Db 6 RLCVOSTHV 14
```

```

RESULT 27
US-10-827-083-4
; Sequence 4; Application US/10827083
; Publication No. US20050042600A1
; GENERAL INFORMATION:
; APPLICANT: Impact Diagnostics
; APPLICANT: Hu, Yao Xiong
; TITLE OF INVENTION: Immunological Methodology for Discerning Human Papillomavirus
; TITLE OF INVENTION: Contemplating Peptides from the E7 Early Coding Region of HPV 16
; FILE REFERENCE: 3352-2-1-4
; CURRENT APPLICATION NUMBER: US/10/827,083
; CURRENT FILING DATE: 2004-04-19
; PRIOR APPLICATION NUMBER: US 09/828,645
; PRIOR FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: US 60/194,796
; PRIOR FILING DATE: 2000-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 4
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Derived from the E7 early coding region of HPV-16
US-10-827-083-4
```

```

Query Match          100.0%; Score 48; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.084;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RLCVOSTHV 9
    |||||
Db 6 RLCVOSTHV 14
```

```

RESULT 28
US-10-476-570-17
; Sequence 17; Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAUT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
```

```

; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: Papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 17
; LENGTH: 23
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E7 65-87
US-10-476-570-17
```

```

Query Match          100.0%; Score 48; DB 4; Length 23;
Best Local Similarity 100.0%; Pred. No. 0.096;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RLCVOSTHV 9
    |||||
Db 2 RLCVOSTHV 10
```

```

RESULT 29
US-09-728-466-1
; Sequence 1; Application US/09728466
; Patent No. US20010029022A1
; GENERAL INFORMATION:
; APPLICANT: Fisher, Christopher
; APPLICANT: He, Manxia
; TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
; TITLE OF INVENTION:
; FILE REFERENCE: 28341/6216
; CURRENT APPLICATION NUMBER: US/09/728,466
; CURRENT FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: 09/382,616
; PRIOR FILING DATE: 1999-08-25
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Papillomavirus sylvilagi
US-09-728-466-1
```

```

Query Match          100.0%; Score 48; DB 3; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RLCVOSTHV 9
    |||||
Db 66 RLCVOSTHV 74
```

```

RESULT 30
US-09-820-765-4
; Sequence 4; Application US/09820765
; Publication No. US20020039584A1
; GENERAL INFORMATION:
; APPLICANT: BURGER, Alexander
; APPLICANT: HALBER, Michael
; TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSER: FOLEY & LARDNER
; STREET: 3000 K Street, N.W.
; CITY: Washington
```

STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/820,765
FILING DATE: 30-Mar-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/026,896
FILING DATE: 20-FEB-1998
ATTORNEY/AGENT INFORMATION:
NAME: Sandercock, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-820-765-4

Query Match 100.0%; Score 48; DB 3; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVQSTHV 9
|||
Db 66 RLCVQSTHV 74

RESULT 31
US-09-824-017-4
Sequence 4, Application US/09824017
Publication No. US20020197668A1
GENERAL INFORMATION:
APPLICANT: BURGER, Alexander
HALBEK, Michael
TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
FORMULATIONS AND METHODS OF USE
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/824,017
FILING DATE: 03-Apr-2001
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/026,896
FILING DATE: 1998-02-20
ATTORNEY/AGENT INFORMATION:
NAME: Sandercock, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102

TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-824-017-4

Query Match 100.0%; Score 48; DB 3; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVQSTHV 9
|||
Db 66 RLCVQSTHV 74

RESULT 32
US-09-986-118A-4
Sequence 4, Application US/09986118A
Publication No. US20030021806A1
GENERAL INFORMATION:
APPLICANT: BURGER, Alexander
HALBEK, Michael
TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
FORMULATIONS AND METHODS OF USE
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/986,118A
FILING DATE: 07-No. US20030021806A1-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/026,896
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Sandercock, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-986-118A-4

Query Match 100.0%; Score 48; DB 3; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVQSTHV 9
|||
Db 66 RLCVQSTHV 74

```
RESULT 33
US-10-267-311-8
; Sequence 8, Application US/10267311
; Publication No. US20030050469A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/267,311
; PRIOR FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 98
; TYPE: PRF
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-267-311-8

Query Match          100.0%; Score 48; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RLCVOSTHV 9
      |||||
Db      66 RLCVOSTHV 74

RESULT 34
US-10-177-390-8
; Sequence 8, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
; APPLICANT: Schuler, Gerold
; APPLICANT: N.V. Antwerp Innovatencentrum
; TITLE OF INVENTION: Improved transfection of Eucaryotic Cells with Linear
; FILE REFERENCE: 021505w/JH/ml
; CURRENT APPLICATION NUMBER: US/10/177,390
; CURRENT FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 98
; TYPE: PRF
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: fragment of
; OTHER INFORMATION: human papilloma virus type 16 E7 gene
US-10-177-390-8

Query Match          100.0%; Score 48; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RLCVOSTHV 9
      |||||
Db      66 RLCVOSTHV 74

RESULT 35
US-10-201-764-19
; Sequence 19, Application US/10201764
; Publication No. US20030166140A1
```

```
; GENERAL INFORMATION:
; APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
; TITLE OF INVENTION: IMMUNE RESPONSE
; FILE REFERENCE: TBA
; CURRENT APPLICATION NUMBER: US/10/201,764
; CURRENT FILING DATE: 2002-07-22
; PRIOR APPLICATION NUMBER: US/09/566,420
; PRIOR FILING DATE: 2000-05-05
; PRIOR APPLICATION NUMBER: 60/132,752
; PRIOR FILING DATE: 1999-05-06
; PRIOR APPLICATION NUMBER: 60/132,750
; PRIOR FILING DATE: 1999-05-06
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
; LENGTH: 98
; TYPE: PRF
; ORGANISM: Human papillomavirus type E7
US-10-201-764-19

Query Match          100.0%; Score 48; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RLCVOSTHV 9
      |||||
Db      66 RLCVOSTHV 74

RESULT 36
US-10-392-113-29
; Sequence 29, Application US/10392113
; Publication No. US2003022493A1
; GENERAL INFORMATION:
; APPLICANT: Deleu, Laurent
; APPLICANT: Land, Hartmut
; TITLE OF INVENTION: COMPOSITIONS THAT INHIBIT PROLIFERATION
; TITLE OF INVENTION: OF CANCER CELLS
; FILE REFERENCE: 21108.0005U3
; CURRENT APPLICATION NUMBER: US/10/392,113
; CURRENT FILING DATE: 2003-03-17
; PRIOR APPLICATION NUMBER: 60/365,078
; PRIOR FILING DATE: 2002-03-15
; PRIOR APPLICATION NUMBER: PCT/US01/32127
; PRIOR FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 60/239,705
; PRIOR FILING DATE: 2000-10-12
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 98
; TYPE: PRF
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:/Note =
; OTHER INFORMATION: Synthetic Construct
US-10-392-113-29

Query Match          100.0%; Score 48; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RLCVOSTHV 9
      |||||
Db      66 RLCVOSTHV 74

RESULT 37
US-10-654-129-4
; Sequence 4, Application US/10654129
; Publication No. US2004008161A1
; GENERAL INFORMATION:
```

```
APPLICANT: BURGER, Alexander
HALLER, Michael
TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
FORMULATIONS AND METHODS OF USE
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/654,129
FILING DATE: 04-Sep-2003
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/824,017
FILING DATE: 03-Apr-2001
APPLICATION NUMBER: 09/026,896
FILING DATE: 1998-02-20
ATTORNEY/AGENT INFORMATION:
NAME: Sandercock, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-10-654-129-4

Query Match      100.0%; Score 48; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVQSTHV 9
Db 66 RLCVQSTHV 74

RESULT 38
US-10-681-410-19
Sequence 19, Application US/10681410
Publication No. US20040096426A1
GENERAL INFORMATION:
APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
IMMUNE RESPONSE
FILE REFERENCE: TBA
CURRENT APPLICATION NUMBER: US/10/681,410
CURRENT FILING DATE: 2003-10-08
PRIOR APPLICATION NUMBER: US/10/201,764
PRIOR FILING DATE: 2002-07-22
PRIOR APPLICATION NUMBER: US/09/566,420
PRIOR FILING DATE: 2000-05-05
PRIOR APPLICATION NUMBER: 60/132,752
PRIOR FILING DATE: 1999-05-06
PRIOR APPLICATION NUMBER: 60/132,750
PRIOR FILING DATE: 1999-05-06
NUMBER OF SEQ ID NOS: 19
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 19
```

```
LENGTH: 98
TYPE: PRT
ORGANISM: Human papillomavirus type E7
US-10-681-410-19

Query Match      100.0%; Score 48; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVQSTHV 9
Db 66 RLCVQSTHV 74

RESULT 39
US-10-772-988-3
Sequence 3, Application US/10772988
Publication No. US20040139485A1
GENERAL INFORMATION:
APPLICANT: Thorgelirsson, Snorri S.
APPLICANT: Woltsch, Joseph T.
TITLE OF INVENTION: CDNA ENCODING A GENE BOG (B5T OVER-EXPRESSED GENE) AND ITS PROTE
PRODUCT
FILE REFERENCE: 11613.29USM1
CURRENT APPLICATION NUMBER: US/10/772,988
CURRENT FILING DATE: 2004-02-05
PRIOR APPLICATION NUMBER: US/09/637,746
PRIOR FILING DATE: 2000-08-11
PRIOR APPLICATION NUMBER: PCT/US99/04142
PRIOR FILING DATE: 1999-02-25
PRIOR APPLICATION NUMBER: US 60/079,567
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: US 60/075,922
PRIOR FILING DATE: 1998-02-25
NUMBER OF SEQ ID NOS: 15
SOFTWARE: PatentIn version 3.1
SEQ ID NO 3
LENGTH: 98
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-772-988-3

Query Match      100.0%; Score 48; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVQSTHV 9
Db 66 RLCVQSTHV 74

RESULT 40
US-10-479-541-5
Sequence 5, Application US/10479541
Publication No. US20040151723A1
GENERAL INFORMATION:
APPLICANT: Kirin Beer Kabushiki Kaisha
TITLE OF INVENTION: Novel E7 antigen epitope from human papillomavirus and
CD4+ T cells activated thereby
FILE REFERENCE: 137240PX
CURRENT APPLICATION NUMBER: US/10/479,541
CURRENT FILING DATE: 2003-12-04
PRIOR APPLICATION NUMBER: 173803/2001
PRIOR FILING DATE: 2001-06-08
NUMBER OF SEQ ID NOS: 5
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 5
LENGTH: 98
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-479-541-5
```

Query Match 100.0%; Score 48; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVOSTHV 9
|||||
Db 66 RLCVOSTHV 74

RESULT 41

US-10-042-526A-4
; Sequence 4, Application US/10042526A
; Publication No. US20050031636A1
; GENERAL INFORMATION:
; APPLICANT: GISSMANN, et al.
; TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE FORMULATIONS AND METHODS OF USE
; FILE REFERENCE: 27013/38150
; CURRENT APPLICATION NUMBER: US/10/042,526A
; CURRENT FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: US 09/632,286
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: US 08/944,368
; PRIOR FILING DATE: 1997-10-06
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 4
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human Papilloma Virus
US-10-042-526A-4

Query Match 100.0%; Score 48; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVOSTHV 9
|||||
Db 66 RLCVOSTHV 74

RESULT 42

US-10-657-399-1
; Sequence 1, Application US/10657399
; Publication No. US20050032038A1
; GENERAL INFORMATION:
; APPLICANT: Fisher, Christopher
; APPLICANT: He, Manxia
; TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
; FILE REFERENCE: 28341/6216
; CURRENT APPLICATION NUMBER: US/10/657,399
; CURRENT FILING DATE: 2003-09-08
; PRIOR APPLICATION NUMBER: US/09/728,466
; PRIOR FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: 09/382,616
; PRIOR FILING DATE: 1999-08-25
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Papillomavirus sylvlagl
US-10-657-399-1

Query Match 100.0%; Score 48; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVOSTHV 9
|||||
Db 66 RLCVOSTHV 74

RESULT 43

US-10-858-384-12
; Sequence 12, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
; CURRENT FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 12
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-10-858-384-12

Query Match 100.0%; Score 48; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVOSTHV 9
|||||
Db 66 RLCVOSTHV 74

RESULT 44

US-10-484-063-26
; Sequence 26, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILTERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: PRE-CANCEROUS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; FILE REFERENCE: UTSC:360US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 26
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-484-063-26

Query Match 100.0%; Score 48; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVOSTHV 9
|||||
Db 66 RLCVOSTHV 74

RESULT 45

US-10-343-448-5
; Sequence 5, Application US/10343448
; Publication No. US20050054820A1
; GENERAL INFORMATION:


```
; APPLICANT: MU, Tzyy-Chouu
; APPLICANT: HUNG, Chien-Fu
; TITLE OF INVENTION: MOLECULAR VACCINE LINKING AN ENDOPLASMIC RETICULUM CHAPERONE
; TITLE OF INVENTION: POLYPEPTIDE TO AN ANTIGEN
; FILE REFERENCE: 2240-186463
; CURRENT APPLICATION NUMBER: US/10/343,448
; CURRENT FILING DATE: 2003-01-31
; PRIOR APPLICATION NUMBER: PCT/US01/24134
; PRIOR FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: US 60/222,902
; PRIOR FILING DATE: 2000-08-03
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus
; US-10-343-448-5
```

```
Query Match          100.0%; Score 48; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 RLCVQSTHV 9
Db 66 RLCVQSTHV 74
```

```
RESULT 46
; US-10-679-956-8
; Sequence 8, Application US/10679956
; Publication No. US20050089841A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/679,956
; CURRENT FILING DATE: 2003-10-06
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: PastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
; US-10-679-956-8
```

```
Query Match          100.0%; Score 48; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 RLCVQSTHV 9
Db 66 RLCVQSTHV 74
```

```
RESULT 47
; US-10-367-057-17
; Sequence 17, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
; APPLICANT: Cutbill, Scott;
; APPLICANT: Jackson, Amanda;
; APPLICANT: Lewin, David A.;
; APPLICANT: Ooi, Chuan Eng
; TITLE OF INVENTION: Complexes and Methods of Using Same
```

```
; FILE REFERENCE: 21402-559
; CURRENT APPLICATION NUMBER: US/10/367,057
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: 60/256,911
; PRIOR FILING DATE: 2002-02-14
; NUMBER OF SEQ ID NOS: 198
; SOFTWARE: CurSeqList version 0.1
; SEQ ID NO 17
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-367-057-17
```

```
Query Match          100.0%; Score 48; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 RLCVQSTHV 9
Db 66 RLCVQSTHV 74
```

```
RESULT 48
; US-11-077-939-5
; Sequence 5, Application US/11077939
; Publication No. US20050196865A1
; GENERAL INFORMATION:
; APPLICANT: Frazer, Ian Hector
; TITLE OF INVENTION: Gene Expression System Based on Codon Translation Efficiency
; FILE REFERENCE: 10338-11U1
; CURRENT APPLICATION NUMBER: US/11/077,939
; CURRENT FILING DATE: 2005-03-11
; PRIOR APPLICATION NUMBER: PCT/AU2003/001200
; PRIOR FILING DATE: 2003-09-12
; PRIOR APPLICATION NUMBER: US 60/410410
; PRIOR FILING DATE: 2002-09-13
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 5
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
; US-11-077-939-5
```

```
Query Match          100.0%; Score 48; DB 6; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 RLCVQSTHV 9
Db 66 RLCVQSTHV 74
```

```
RESULT 49
; US-10-115-440-7
; Sequence 7, Application US/10115440
; Publication No. US20040086845A1
; GENERAL INFORMATION:
; APPLICANT: MU, Tzyy-Chouu
; APPLICANT: HUNG, Chien-Fu
; TITLE OF INVENTION: SUPERIOR MOLECULAR VACCINE LINKING THE TRANSLATION DOMAIN OF A
; TITLE OF INVENTION: BACTERIAL TOXIN TO AN ANTIGEN
; FILE REFERENCE: 02240-179934
; CURRENT APPLICATION NUMBER: US/10/115,440
; CURRENT FILING DATE: 2002-09-30
; PRIOR APPLICATION NUMBER: US 60/281,003
; PRIOR FILING DATE: 2001-04-04
; PRIOR APPLICATION NUMBER: PCT/US00/41422
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: US 09/501,097
; PRIOR FILING DATE: 2000-02-09
; PRIOR APPLICATION NUMBER: US 09/421,608
; PRIOR FILING DATE: 1999-10-20
```

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/ NUMBER OF SEQ ID NOS: 15
/ SOFTWARE: Patentin version 3.1
/ SEQ ID NO 7
/ LENGTH: 99
/ TYPE: PRT
/ ORGANISM: Human papillomavirus
US-10-115-440-7
```

```
Query Match 100.0%; Score 48; DB 4; Length 99;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RLCVOSTHV 9
|||
Db 66 RLCVOSTHV 74
```

```
RESULT 50
US-10-472-724-4
/ Sequence 4, Application US/10472724
/ Publication No. US20040171806A1
/ GENERAL INFORMATION:
/ APPLICANT: Cid-Arregui, Angel
/ APPLICANT: Zur Haegen, Harald
/ TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
/ FILE REFERENCE: 4121-154
/ CURRENT APPLICATION NUMBER: US/10/472,724
/ PRIOR FILING DATE: 2003-09-17
/ PRIOR APPLICATION NUMBER: PCT/EP02/03271
/ PRIOR FILING DATE: 2002-03-22
/ PRIOR APPLICATION NUMBER: EP 01107271.7
/ PRIOR FILING DATE: 2001-03-23
/ NUMBER OF SEQ ID NOS: 27
/ SOFTWARE: Patentin version 3.2
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/ TYPE: PRT
/ ORGANISM: Artificial Sequence
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/ OTHER INFORMATION: Synthetic Construct
US-10-472-724-4
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249	27	56.2	339	11	US-11-079-463-7424	Sequence 7424, Ap	322	26	54.2	9	11	US-11-074-373-49	Sequence 49, App1
250	27	56.2	355	9	US-10-995-561-636	Sequence 636, App	323	26	54.2	19	9	US-11-224-622-3	Sequence 3, App1
251	27	56.2	355	11	US-11-108-528-48	Sequence 48, App1	324	26	54.2	19	9	US-10-467-657-8775	Sequence 8775, Ap
252	27	56.2	361	11	US-11-096-568A-7375	Sequence 7375, Ap	325	26	54.2	37	9	US-10-957-351-176	Sequence 176, App
253	27	56.2	362	9	US-10-995-561-637	Sequence 637, App	326	26	54.2	68	11	US-11-145-861-4	Sequence 4, App1
254	27	56.2	362	11	US-11-096-568A-7374	Sequence 7374, Ap	327	26	54.2	78	11	US-11-050-857-1116	Sequence 1116, Ap
255	27	56.2	363	11	US-11-096-568A-7373	Sequence 7373, Ap	328	26	54.2	100	9	US-10-932-334-56	Sequence 56, App1
256	27	56.2	390	11	US-11-188-298-14156	Sequence 14156, A	329	26	54.2	101	7	US-09-978-360A-552	Sequence 522, App
257	27	56.2	398	11	US-11-096-568A-6529	Sequence 6529, Ap	330	26	54.2	101	11	US-11-096-568A-19849	Sequence 19849, A
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269	27	56.2	506	11	US-11-188-298-4028	Sequence 4028, Ap	342	26	54.2	113	9	US-10-932-334-9	Sequence 9, App1
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275	27	56.2	539	9	US-10-973-115B-140	Sequence 140, App	348	26	54.2	113	9	US-10-932-334-60	Sequence 60, App1
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299	27	56.2	875	9	US-10-859-643-745	Sequence 745, App	372	26	54.2	122	11	US-11-096-568A-18848	Sequence 26728, A
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303	27	56.2	875	11	US-11-097-864-743	Sequence 743, App	376	26	54.2	124	11	US-11-188-298-7335	Sequence 2428, Ap
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308	27	56.2	875	11	US-11-097-912-743	Sequence 743, App	381	26	54.2	132	9	US-10-932-334-50	Sequence 30, App1
309	27	56.2	875	11	US-11-097-912-745	Sequence 745, App	382	26	54.2	132	9	US-10-489-866-50	Sequence 40, App1
310	27	56.2	875	11	US-11-097-912-747	Sequence 747, App	383	26	54.2	148	9	US-10-213-922-42	Sequence 82, App1
311	27	56.2	875	11	US-11-097-912-748	Sequence 748, App	384	26	54.2	149	11	US-11-052-554A-82	Sequence 2, App1
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400	26	54.2	211	11	US-11-096-568A-14857	Sequence 14857, A	473	26	54.2	490	9	US-10-152-370-310	Sequence 310, App
401	26	54.2	216	11	US-11-226-657-69	Sequence 69, Appl	474	26	54.2	490	11	US-11-290-153-310	Sequence 310, App
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410	26	54.2	251	9	US-10-512-184-30	Sequence 30, Appl	483	26	54.2	511	9	US-10-973-115B-122	Sequence 122, App
411	26	54.2	254	11	US-11-087-099-4689	Sequence 4689, Ap	484	26	54.2	511	9	US-10-137-873A-122	Sequence 122, App
412	26	54.2	257	11	US-11-096-568A-4757	Sequence 4757, Ap	485	26	54.2	511	9	US-10-152-370-122	Sequence 122, App
413	26	54.2	257	11	US-11-096-568A-6223	Sequence 6223, Ap	486	26	54.2	511	11	US-11-079-463-8730	Sequence 8730, Ap
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442	26	54.2	385	9	US-11-096-568A-8794	Sequence 8794, Ap	515	26	54.2	618	9	US-10-506-454-237	Sequence 237, Appl
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535	26	54.2	1156	11	US-11-096-568A-30724	Sequence 30724, A	608	25	52.1	132	11	US-11-155-843-149	Sequence 149, App
536	26	54.2	1193	11	US-11-139-435-3	Sequence 3, Appl1	609	25	52.1	132	11	US-11-155-843-190	Sequence 190, App
537	26	54.2	1207	11	US-11-079-463-5235	Sequence 5235, Ap	610	25	52.1	134	11	US-11-098-688-10688	Sequence 10688, A
538	26	54.2	1208	9	US-10-330-773-244	Sequence 244, App	611	25	52.1	135	11	US-11-155-843-153	Sequence 153, App
539	26	54.2	1240	11	US-11-096-568A-30723	Sequence 30723, A	612	25	52.1	151	11	US-11-096-568A-21027	Sequence 21027, A
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541	26	54.2	1308	9	US-10-912-971-12	Sequence 12, Appl1	614	25	52.1	161	11	US-11-072-512-2659	Sequence 2659, Ap
542	26	54.2	1308	11	US-11-113-202-16	Sequence 16, Appl1	615	25	52.1	172	9	US-10-517-696-108	Sequence 108, App
543	26	54.2	1351	11	US-11-129-741-2937	Sequence 2937, Ap	616	25	52.1	173	11	US-11-045-004-557	Sequence 557, App
544	26	54.2	1351	11	US-11-129-741-2947	Sequence 2947, Ap	617	25	52.1	177	9	US-10-873-528-108	Sequence 108, App
545	26	54.2	1356	11	US-11-129-741-2939	Sequence 2939, Ap	618	25	52.1	183	9	US-10-467-657-9192	Sequence 9192, Ap
546	26	54.2	1356	11	US-11-129-741-2941	Sequence 2941, Ap	619	25	52.1	187	11	US-11-087-099-1401	Sequence 1401, Ap
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550	26	54.2	1356	11	US-11-129-741-2951	Sequence 2951, Ap	623	25	52.1	196	9	US-10-455-772-186	Sequence 186, App
551	26	54.2	1356	11	US-11-129-741-4245	Sequence 4245, Ap	624	25	52.1	196	9	US-10-455-772-190	Sequence 190, App
552	26	54.2	1362	11	US-10-895-064-420	Sequence 420, App	625	25	52.1	196	9	US-10-455-772-192	Sequence 192, App
553	26	54.2	1362	11	US-11-129-741-420	Sequence 420, App	626	25	52.1	196	9	US-10-455-772-194	Sequence 194, App
554	26	54.2	1385	11	US-11-129-741-3655	Sequence 3655, Ap	627	25	52.1	196	9	US-10-455-772-197	Sequence 197, App
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564	25.5	53.1	1296	11	US-11-188-298-9652	Sequence 9652, Ap	637	25	52.1	204	11	US-11-144-947-429	Sequence 429, App
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566	25	52.1	28	11	US-11-009-873A-142	Sequence 142, App	639	25	52.1	206	9	US-10-455-772-185	Sequence 185, App
567	25	52.1	28	11	US-11-009-873A-142	Sequence 142, App	640	25	52.1	206	9	US-10-455-772-182	Sequence 182, App
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571	25	52.1	52	11	US-11-129-741-2769	Sequence 8062, Ap	644	25	52.1	214	11	US-11-188-298-9861	Sequence 10216, A
572	25	52.1	59	9	US-10-467-657-8062	Sequence 15786, Ap	645	25	52.1	219	11	US-11-155-843-1177	Sequence 177, App
573	25	52.1	61	11	US-11-188-298-15786	Sequence 5837, Ap	646	25	52.1	221	11	US-11-072-512-3756	Sequence 3756, App
574	25	52.1	69	11	US-11-079-463-9588	Sequence 9588, Ap	647	25	52.1	221	11	US-11-096-568A-9530	Sequence 9530, App
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578	25	52.1	83	11	US-11-188-298-5863	Sequence 5863, Ap	651	25	52.1	229	11	US-11-096-568A-23258	Sequence 23258, A
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583	25	52.1	91	11	US-11-096-568A-15751	Sequence 15751, A	656	25	52.1	237	9	US-10-195-889-222	Sequence 222, App
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594	25	52.1	102	11	US-11-155-843-34	Sequence 34, Appl1	667	25	52.1	275	9	US-10-467-657-1402	Sequence 1402, Ap
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598	25	52.1	102	11	US-11-155-843-38	Sequence 38, Appl1	671	25	52.1	280	11	US-11-102-497-6	Sequence 6, Appl1
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681	25	52.1	281	11	US-11-188-298-7735	Sequence 7735, Ap	754	25	52.1	411	11	US-11-106-067-28	Sequence 28, Appl1
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697	25	52.1	312	11	US-11-197-721-14	Sequence 14, Appl1	770	25	52.1	449	11	US-11-106-067-30	Sequence 30, Appl1
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706	25	52.1	321	11	US-11-287-359-72	Sequence 72, Appl1	779	25	52.1	476	11	US-11-079-463-9043	Sequence 9043, Ap
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709	25	52.1	328	11	US-11-096-568A-22210	Sequence 23210, A	782	25	52.1	480	11	US-11-096-568A-5679	Sequence 5679, Ap
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720	25	52.1	353	11	US-11-096-568A-22016	Sequence 22016, A	793	25	52.1	519	11	US-11-096-568A-23870	Sequence 23870, A
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736	25	52.1	384	11	US-11-188-298-20370	Sequence 20370, A	809	25	52.1	550	9	US-10-504-364-9	Sequence 9, Appl1
737	25	52.1	385	11	US-11-172-740-1441	Sequence 1441, Ap	810	25	52.1	551	9	US-10-821-234-1580	Sequence 1580, Ap
738	25	52.1	385	11	US-11-079-463-8385	Sequence 8385, Ap	811	25	52.1	551	9	US-10-504-364-1	Sequence 1, Appl1
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ALIGNMENTS

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; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT FILING DATE: 2005-04-04
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1712
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1712

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US-11-041-893-101
; Sequence 101, Application US/11041893
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; GENERAL INFORMATION:
; APPLICANT: Mahalas, Gregory G.
; TITLE OF INVENTION: COMPOSITIONS COMPRISING IMMUNE RESPONSE
; FILE REFERENCE: 100123, 401
; CURRENT APPLICATION NUMBER: US/11/041,893
; CURRENT FILING DATE: 2005-01-24
; PRIOR APPLICATION NUMBER: US 60/616,855
; PRIOR FILING DATE: 2004-10-06
; PRIOR APPLICATION NUMBER: US 60/538,713
; PRIOR FILING DATE: 2004-01-23
; NUMBER OF SEQ ID NOS: 295
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; APPLICANT: McCance, Dennis
; APPLICANT: Westbrook, III, Thomas F.
; TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
; FILE REFERENCE: 21108.0016U2
; CURRENT FILING DATE: 2004-10-19
; PRIOR FILING DATE: 2003-04-21
; PRIOR APPLICATION NUMBER: PCT/US03/12667
; PRIOR FILING DATE: 2003-04-19
; PRIOR APPLICATION NUMBER: 60/374,245
; PRIOR FILING DATE: 2002-04-19
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; OTHER INFORMATION: Description of Artificial Sequence/Note =
US-10-511-814-8
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; APPLICANT: McCance, Dennis
; APPLICANT: Westbrook, III, Thomas F.
; TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
; FILE REFERENCE: 21108.0016U2
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; CURRENT APPLICATION NUMBER: US/10/511,814
; CURRENT FILING DATE: 2004-10-19
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; PRIOR FILING DATE: 2003-04-21
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US-10-511-814-11
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; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casaretti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
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; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
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US-10-530-253-14
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; GENERAL INFORMATION:
; APPLICANT: BURGER, Alexander
; APPLICANT: HALLER, Michael
; TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
; TITLE OF INVENTION: FORMULATIONS AND METHODS OF USE
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY & LARDNER
; STREET: 3000 K Street, N.W.
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; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20007-5109
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; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/11/179,478
; FILING DATE: 13-JULY-2005
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/10/654,129
; FILING DATE: 04-Sep-2003
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Sandercoc, Colin G.
; REGISTRATION NUMBER: 31,298
; REFERENCE/DOCKET NUMBER: 37067/102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 672-5300
; TELEFAX: (202) 672-5399
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-11-179-478-4
```

```

Query Match      100.0%; Score 48; DB 11; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.012;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RLCVQSTHV 9
        |||||
DB      66 RLCVQSTHV 74
```

```

RESULT 7
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casaretti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-1
```

```

Query Match      100.0%; Score 48; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.028;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RLCVQSTHV 9
        |||||
DB      216 RLCVQSTHV 224
```

```
RESULT 8
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-3

Query Match          100.0%; Score 48; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.028;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVOSTHV 9
DB 216 RLCVOSTHV 224

RESULT 9
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-5

Query Match          100.0%; Score 48; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.028;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVOSTHV 9
DB 216 RLCVOSTHV 224

RESULT 10
US-10-530-253-7
; Sequence 7, Application US/10530253
```

```
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-7

Query Match          100.0%; Score 48; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.028;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVOSTHV 9
DB 66 RLCVOSTHV 74

RESULT 11
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-9

Query Match          100.0%; Score 48; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.028;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RLCVOSTHV 9
DB 66 RLCVOSTHV 74

RESULT 12
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
```

```
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 11
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-11

Query Match      100.0%; Score 48; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.028;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RLCVQSTHV 9
        |||||
Db      66 RLCVQSTHV 74

RESULT 13
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
; APPLICANT: PANQ, XIAOWU
; TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
; FILE REFERENCE: 116620-003
; CURRENT APPLICATION NUMBER: US/11/192,923A
; CURRENT FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: CN 03115272.4
; PRIOR FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: CN 03115273.2
; PRIOR FILING DATE: 2003-01-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patentin Ver. 3.3
; SEQ ID NO 2
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-11-192-923A-2

Query Match      100.0%; Score 48; DB 11; Length 256;
Best Local Similarity 100.0%; Pred. No. 0.029;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RLCVQSTHV 9
        |||||
Db      66 RLCVQSTHV 74

RESULT 14
US-10-530-253-30
; Sequence 30, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casaretti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
```

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; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 30
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Human papillomavirus type 35
US-10-530-253-30

Query Match      97.9%; Score 47; DB 9; Length 99;
Best Local Similarity 88.9%; Pred. No. 0.019;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 RLCVQSTHV 9
        |||||
Db      67 RLCVQSTHI 75

RESULT 15
US-10-530-253-28
; Sequence 28, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casaretti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 28
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type 31
US-10-530-253-28

Query Match      83.3%; Score 40; DB 9; Length 98;
Best Local Similarity 88.9%; Pred. No. 0.046;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 RLCVQSTHV 9
        |||||
Db      66 RLCVQSTOV 74

RESULT 16
US-11-096-568A-26771
; Sequence 26771, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 26771
; LENGTH: 799
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)_(799)
; OTHER INFORMATION: Ceres Seq. ID no. 13600313
```

US-11-096-568A-26771

Query Match 77.1%; Score 37; DB 11; Length 799;
Best Local Similarity 55.6%; Pred. No. 13;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 RLCTVOSTHV 9
|||:|:|:
Db 52 RLCTQAEMI 60

RESULT 17

US-11-096-568A-26770
; Sequence 26770; Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 26770
; LENGTH: 842
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(842)
; OTHER INFORMATION: Cereals Seq. ID no. 13600312
US-11-096-568A-26770

Query Match 77.1%; Score 37; DB 11; Length 842;
Best Local Similarity 55.6%; Pred. No. 13;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 RLCTVOSTHV 9
|||:|:|:
Db 95 RLCTQAEMI 103

RESULT 18
US-11-096-568A-26769
; Sequence 26769; Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 26769
; LENGTH: 849
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(849)
; OTHER INFORMATION: Cereals Seq. ID no. 13600311
US-11-096-568A-26769

Query Match 77.1%; Score 37; DB 11; Length 849;
Best Local Similarity 55.6%; Pred. No. 13;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 RLCTVOSTHV 9
|||:|:|:
Db 102 RLCTQAEMI 110

RESULT 19

US-10-745-586-153
; Sequence 153; Application US/10745586
; Publication No. US20060063227A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: McCoy, John M.
; APPLICANT: Lavallee, Edward R.
; APPLICANT: Collins-Racie, Lisa A.
; APPLICANT: Evans, Cheryl
; APPLICANT: Merberg, David
; APPLICANT: Treacy, Maurice
; APPLICANT: Bowman, Michael R.
; APPLICANT: Spaulding, Vikki
; APPLICANT: Agostino, Michael J.
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
; FILE REFERENCE: GI 6011-18X
; CURRENT APPLICATION NUMBER: US/10/745,586
; CURRENT FILING DATE: 2003-12-29
; PRIOR APPLICATION NUMBER: US/09/398,829
; PRIOR FILING DATE: 1999-09-17
; NUMBER OF SEQ ID NOS: 283
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 153
; LENGTH: 910
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (43)
US-10-745-586-153

Query Match 72.9%; Score 35; DB 9; Length 910;
Best Local Similarity 62.5%; Pred. No. 36;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 LCVOSTHV 9
|||:|:|:
Db 868 ICVNSTHI 875

RESULT 20
US-11-078-951-2
; Sequence 2; Application US/11078951
; Publication No. US20050272119A1
; GENERAL INFORMATION:
; APPLICANT: Kubota, Kazuishi; Nakahara, Kaori
; APPLICANT: Hara, Aayako; Ozeki, Yonei
; APPLICANT: Iijima, Yasuteru
; TITLE OF INVENTION: 2',5'-Oligoadenylate phosphodiesterase
; FILE REFERENCE: 05090C/HG
; CURRENT APPLICATION NUMBER: US/11/078,951
; CURRENT FILING DATE: 2005-03-11
; PRIOR APPLICATION NUMBER: JP 2002-267797
; PRIOR FILING DATE: 2002-09-13
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 609
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-078-951-2

Query Match 70.8%; Score 34; DB 11; Length 609;
Best Local Similarity 55.6%; Pred. No. 39;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 RLCTVOSTHV 9
|||:|:|:
Db 449 RICVANTHL 457

```
RESULT 21
US-10-502-145-15
; Sequence 15, Application US/10502145
; Publication No. US20050244406A1
; GENERAL INFORMATION:
; APPLICANT: MACKAY, CHARLES REAY
; TITLE OF INVENTION: Anti-C5aR antibodies and uses thereof
; FILE REFERENCE: RICE-032
; CURRENT APPLICATION NUMBER: US/10/502,145
; PRIOR FILING DATE: 2004-07-19
; PRIOR APPLICATION NUMBER: USSN 60/350,961
; PRIOR FILING DATE: 2002-01-25
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
; LENGTH: 112
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-502-145-15

Query Match      68.8%; Score 33; DB 9; Length 112;
Best Local Similarity 85.7%; Pred. No. 13;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      3 CVOSTHV 9
      | | | | |
Db      93 CSOSTHV 99

RESULT 22
US-10-507-662-39
; Sequence 39, Application US/10507662
; Publication No. US20050255102A1
; GENERAL INFORMATION:
; APPLICANT: BIOSEN, INC.
; TITLE OF INVENTION: ANTI-ALPHA-V BETA-6 ANTIBODIES
; FILE REFERENCE: A136PCT
; CURRENT APPLICATION NUMBER: US/10/507,662
; PRIOR FILING DATE: 2004-09-13
; PRIOR APPLICATION NUMBER: 60/364,991
; PRIOR FILING DATE: 2002-03-13
; PRIOR APPLICATION NUMBER: 60/426,286
; PRIOR FILING DATE: 2002-11-13
; NUMBER OF SEQ ID NOS: 64
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 39
; LENGTH: 112
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-507-662-39

Query Match      68.8%; Score 33; DB 9; Length 112;
Best Local Similarity 85.7%; Pred. No. 13;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      3 CVOSTHV 9
      | | | | |
Db      93 CSOSTHV 99

RESULT 23
US-10-487-324A-7
; Sequence 7, Application US/10487324A
; Publication No. US20060073149A1
; GENERAL INFORMATION:
; APPLICANT: Bales, Kelly R
; APPLICANT: Paul, Steven M
; APPLICANT: Dodart, Jean-Cosme F
; TITLE OF INVENTION: Rapid Improvement of Cognition in Conditions Related to A-beta
; FILE REFERENCE: X-15240
; CURRENT APPLICATION NUMBER: US/10/487,324A
; CURRENT FILING DATE: 2004-02-17
```

```
; PRIOR APPLICATION NUMBER: 60/313,232
; PRIOR FILING DATE: 2001-08-17
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 113
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: humanized antibody
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)-(113)
; OTHER INFORMATION: humanized antibody 266 preferred light chain variable
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (109)..(109)
; OTHER INFORMATION: Xaa is Val or Leu
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (108)..(108)
; OTHER INFORMATION: Xaa is Lys or Arg
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (105)..(105)
; OTHER INFORMATION: Xaa is Gln or Gly
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (88)..(88)
; OTHER INFORMATION: Xaa is Val or Leu
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (50)..(50)
; OTHER INFORMATION: Xaa is Arg, Gln, or Lys
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (14)..(14)
; OTHER INFORMATION: Xaa is Thr or Ser
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (7)..(7)
; OTHER INFORMATION: Xaa is Ser or Thr
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (2)..(2)
; OTHER INFORMATION: Xaa is Val or Ile
US-10-487-324A-7

Query Match      68.8%; Score 33; DB 9; Length 113;
Best Local Similarity 85.7%; Pred. No. 13;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      3 CVOSTHV 9
      | | | | |
Db      93 CSOSTHV 99

RESULT 24
US-10-487-324A-9
; Sequence 9, Application US/10487324A
; Publication No. US20060073149A1
; GENERAL INFORMATION:
; APPLICANT: Bales, Kelly R
; APPLICANT: Paul, Steven M
; APPLICANT: Dodart, Jean-Cosme F
```

```

; TITLE OF INVENTION: Rapid Improvement of Cognition in Conditions Related to A-beta
; FILE REFERENCE: X-15240
; CURRENT APPLICATION NUMBER: US/10/487,324A
; PRIOR FILING DATE: 2004-02-17
; PRIOR APPLICATION NUMBER: 60/313,232
; PRIOR FILING DATE: 2001-08-17
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 113
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: humanized antibody
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(113)
; OTHER INFORMATION: humanized antibody 266 preferred light chain variable
US-10-487-324A-9
```

```

Query Match          68.8%; Score 33; DB 9; Length 113;
Best Local Similarity 85.7%; Pred. No. 13;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      3 CVQSTHV 9
      | | | | |
Db       93 CSQSTHV 99
```

```

RESULT 25
US-11-224-623-7
; Sequence 7, Application US/11224623
; Publication No. US2006003906A1
; GENERAL INFORMATION:
; APPLICANT: ELI LILLY AND COMPANY and WASHINGTON UNIVERSITY
; TITLE OF INVENTION: Humanized Antibodies that Sequester Amyloid Beta Peptide
; FILE REFERENCE: 8792/293
; CURRENT APPLICATION NUMBER: US/11/224,623
; CURRENT FILING DATE: 2005-09-12
; PRIOR APPLICATION NUMBER: US/10/226,435
; PRIOR FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: PCT/US01/06191
; PRIOR FILING DATE: 2001-02-26
; PRIOR APPLICATION NUMBER: 60/184,601
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/254,465
; PRIOR FILING DATE: 2000-12-08
; PRIOR APPLICATION NUMBER: 60/254,498
; PRIOR FILING DATE: 2000-12-08
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 113
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Humanized antibodies
; NAME/KEY: MISC FEATURE
; LOCATION: (2)..(2)
; OTHER INFORMATION: Xaa at position 2 is Val or Ile
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (7)..(7)
; OTHER INFORMATION: Xaa at position 7 is Ser or Thr
; NAME/KEY: MISC FEATURE
; LOCATION: (14)..(14)
; OTHER INFORMATION: Xaa at position 14 is Thr or Ser
; NAME/KEY: MISC FEATURE
; LOCATION: (15)..(15)
; OTHER INFORMATION: Xaa at position 15 is Leu or Pro
```

```

; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (30)..(30)
; OTHER INFORMATION: Xaa at position 30 is Ile or Val
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (50)..(50)
; OTHER INFORMATION: Xaa at position 50 is Arg, Gln, or Lys
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (88)..(88)
; OTHER INFORMATION: Xaa at position 88 is Val or Leu
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (105)..(105)
; OTHER INFORMATION: Xaa at position 105 is Gln or Gly
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (108)..(108)
; OTHER INFORMATION: Xaa at position 108 is Lys or Arg
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (109)..(109)
; OTHER INFORMATION: Xaa at position 109 is Val or Leu
US-11-224-623-7
```

```

Query Match          68.8%; Score 33; DB 11; Length 113;
Best Local Similarity 85.7%; Pred. No. 13;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      3 CVQSTHV 9
      | | | | |
Db       93 CSQSTHV 99
```

```

RESULT 26
US-11-224-623-9
; Sequence 9, Application US/11224623
; Publication No. US2006003906A1
; GENERAL INFORMATION:
; APPLICANT: ELI LILLY AND COMPANY and WASHINGTON UNIVERSITY
; TITLE OF INVENTION: Humanized Antibodies that Sequester Amyloid Beta Peptide
; FILE REFERENCE: 8792/293
; CURRENT APPLICATION NUMBER: US/11/224,623
; CURRENT FILING DATE: 2005-09-12
; PRIOR APPLICATION NUMBER: US/10/226,435
; PRIOR FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: PCT/US01/06191
; PRIOR FILING DATE: 2001-02-26
; PRIOR APPLICATION NUMBER: 60/184,601
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/254,465
; PRIOR FILING DATE: 2000-12-08
; PRIOR APPLICATION NUMBER: 60/254,498
; PRIOR FILING DATE: 2000-12-08
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 113
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Humanized antibodies
US-11-224-623-9
```

```

Query Match          68.8%; Score 33; DB 11; Length 113;
Best Local Similarity 85.7%; Pred. No. 13;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      3 CVQSTHV 9
      | | | | |
Db       93 CSQSTHV 99
```


RESULT 27
US-11-259-232-45
; Sequence 45, Application US/11259232
; Publication No. US20060083683A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc., Hsai, Vanessa
; APPLICANT: Koumenis, Iphigenia
; APPLICANT: Leong, Steven R.
; APPLICANT: Shahrokh, Zahra
; APPLICANT: Zapata, Gerardo A.
; TITLE OF INVENTION: ANTIBODY FRAGMENT-POLYMER CONJUGATES AND USES OF SAME
; FILE REFERENCE: P1085R6
; CURRENT APPLICATION NUMBER: US/11/259,232
; PRIOR FILING DATE: 2005-10-25
; PRIOR APPLICATION NUMBER: US/09/489,394
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: US 60/116,787
; PRIOR FILING DATE: 1999-01-21
; NUMBER OF SEQ ID NOS: 72
; SEQ ID NO 45
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Mus musculus
US-11-259-232-45

Query Match 68.8%; Score 33; DB 11; Length 114;
Best Local Similarity 85.7%; Pred. No. 13;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 CVQSTHV 9
| | | | |
Db 94 CSQSTHV 100

RESULT 28
US-11-259-232-46
; Sequence 46, Application US/11259232
; Publication No. US20060083683A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc., Hsai, Vanessa
; APPLICANT: Koumenis, Iphigenia
; APPLICANT: Leong, Steven R.
; APPLICANT: Shahrokh, Zahra
; APPLICANT: Zapata, Gerardo A.
; TITLE OF INVENTION: ANTIBODY FRAGMENT-POLYMER CONJUGATES AND USES OF SAME
; FILE REFERENCE: P1085R6
; CURRENT APPLICATION NUMBER: US/11/259,232
; PRIOR FILING DATE: 2005-10-25
; PRIOR APPLICATION NUMBER: US/09/489,394
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: US 60/116,787
; PRIOR FILING DATE: 1999-01-21
; NUMBER OF SEQ ID NOS: 72
; SEQ ID NO 46
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: Artificial Sequence
; LOCATION: 1-114
; OTHER INFORMATION: recombinant immunoglobulin
US-11-259-232-46

Query Match 68.8%; Score 33; DB 11; Length 114;
Best Local Similarity 85.7%; Pred. No. 13;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 CVQSTHV 9
| | | | |
Db 94 CSQSTHV 100

RESULT 29
US-11-259-232-35
; Sequence 35, Application US/11259232
; Publication No. US20060083683A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc., Hsai, Vanessa
; APPLICANT: Koumenis, Iphigenia
; APPLICANT: Leong, Steven R.
; APPLICANT: Shahrokh, Zahra
; APPLICANT: Zapata, Gerardo A.
; TITLE OF INVENTION: ANTIBODY FRAGMENT-POLYMER CONJUGATES AND USES OF SAME
; FILE REFERENCE: P1085R6
; CURRENT APPLICATION NUMBER: US/11/259,232
; PRIOR FILING DATE: 2005-10-25
; PRIOR APPLICATION NUMBER: US/09/489,394
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: US 60/116,787
; PRIOR FILING DATE: 1999-01-21
; NUMBER OF SEQ ID NOS: 72
; SEQ ID NO 35
; LENGTH: 131
; TYPE: PRT
; ORGANISM: Mus musculus
US-11-259-232-35

Query Match 68.8%; Score 33; DB 11; Length 131;
Best Local Similarity 85.7%; Pred. No. 15;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 CVQSTHV 9
| | | | |
Db 93 CSQSTHV 99

RESULT 30
US-11-074-373-37
; Sequence 37, Application US/11074373
; Publication No. US20060024302A1
; GENERAL INFORMATION:
; APPLICANT: Achen et al.
; TITLE OF INVENTION: CHIMERIC ANTI-VEGF-D ANTIBODIES AND HUMANIZED ANTI-VEGF-D ANTIBODIES
; FILE REFERENCE: 28967/39969A
; CURRENT APPLICATION NUMBER: US/11/074,373
; CURRENT FILING DATE: 2005-03-07
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 37
; LENGTH: 132
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-074-373-37

Query Match 68.8%; Score 33; DB 11; Length 132;
Best Local Similarity 85.7%; Pred. No. 15;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 CVQSTHV 9
| | | | |
Db 112 CSQSTHV 118

RESULT 31
US-11-055-163-15
; Sequence 15, Application US/11055163
; Publication No. US20050271655A1
; GENERAL INFORMATION:
; APPLICANT: LEE, DANIEL H. S.
; APPLICANT: PEPINSKY, R. BLAKE
; APPLICANT: LI, WEIWEI
; APPLICANT: RABACCHI, SYLVIA A.
; APPLICANT: RELTON, JANE K.
; APPLICANT: WORLEY, DANE S.

```
APPLICANT: STRITTMATER, STEPHEN M.
APPLICANT: SAH, DINAH Y.W.
TITLE OF INVENTION: NOGO RECEPTOR ANTAGONISTS
FILE REFERENCE: A170 CON (00455.271)
CURRENT APPLICATION NUMBER: US/11/055,163
CURRENT FILING DATE: 2005-02-10
PRIOR APPLICATION NUMBER: PCT/US03/25004
PRIOR FILING DATE: 2003-08-07
PRIOR APPLICATION NUMBER: 60/402,866
PRIOR FILING DATE: 2002-08-10
NUMBER OF SEQ ID NOS: 25
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 15
LENGTH: 144
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-11-055-163-15
```

```
Query Match      68.8%; Score 33; DB 11; Length 144;
Best Local Similarity 85.7%; Pred. No. 16;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      3 CVOSTHV 9
      | | | | |
Db      112 CSOSTHV 118
```

```
RESULT 32
US-11-055-163-16
Sequence 16, Application US/11055163
Publication No. US20050271655A1
GENERAL INFORMATION:
APPLICANT: LEE, DANIEL H.S.
APPLICANT: PEPINSKY, R. BLAKE
APPLICANT: LI, WEIWEI
APPLICANT: RABACCHI, SYLVIA A.
APPLICANT: REITON, JANE K.
APPLICANT: MORLEY, DANE S.
APPLICANT: STRITTMATER, STEPHEN M.
APPLICANT: SAH, DINAH Y.W.
TITLE OF INVENTION: NOGO RECEPTOR ANTAGONISTS
FILE REFERENCE: A170 CON (00455.271)
CURRENT APPLICATION NUMBER: US/11/055,163
CURRENT FILING DATE: 2005-02-10
PRIOR APPLICATION NUMBER: PCT/US03/25004
PRIOR FILING DATE: 2003-08-07
PRIOR APPLICATION NUMBER: 60/402,866
PRIOR FILING DATE: 2002-08-10
NUMBER OF SEQ ID NOS: 25
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 16
LENGTH: 144
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-11-055-163-16
```

```
Query Match      68.8%; Score 33; DB 11; Length 144;
Best Local Similarity 85.7%; Pred. No. 16;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      3 CVOSTHV 9
      | | | | |
Db      112 CSOSTHV 118
```

```
RESULT 33
US-10-487-324A-11
```

```
Sequence 11, Application US/10487324A
Publication No. US20060073149A1
GENERAL INFORMATION:
APPLICANT: Bales, Kelly R
APPLICANT: Paul, Steven M
APPLICANT: Dodart, Jean-Cosme F
TITLE OF INVENTION: Rapid Improvement of Cognition in Conditions Related to A-beta
FILE REFERENCE: X-15240
CURRENT APPLICATION NUMBER: US/10/487,324A
CURRENT FILING DATE: 2004-02-17
PRIOR APPLICATION NUMBER: 60/313,232
PRIOR FILING DATE: 2001-08-17
NUMBER OF SEQ ID NOS: 21
SOFTWARE: PatentIn version 3.1
SEQ ID NO 11
LENGTH: 219
TYPE: PRT
ORGANISM: artificial sequence
FEATURE:
OTHER INFORMATION: humanized antibody
NAME/KEY: MISC FEATURE
LOCATION: (1)-(219)
OTHER INFORMATION: humanized 266 antibody preferred light chain
US-10-487-324A-11
```

```
Query Match      68.8%; Score 33; DB 9; Length 219;
Best Local Similarity 85.7%; Pred. No. 24;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      3 CVOSTHV 9
      | | | | |
Db      93 CSOSTHV 99
```

```
RESULT 34
US-11-224-623-11
Sequence 11, Application US/11224623
Publication No. US20060039906A1
GENERAL INFORMATION:
APPLICANT: ELI LILLY AND COMPANY AND WASHINGTON UNIVERSITY
TITLE OF INVENTION: Humanized Antibodies that Sequester Amyloid Beta Peptide
FILE REFERENCE: 8792/293
CURRENT APPLICATION NUMBER: US/11/224,623
CURRENT FILING DATE: 2005-09-12
PRIOR APPLICATION NUMBER: US/10/226,435
PRIOR FILING DATE: 2002-11-13
PRIOR APPLICATION NUMBER: PCT/US01/06191
PRIOR FILING DATE: 2001-02-26
PRIOR APPLICATION NUMBER: 60/184,601
PRIOR FILING DATE: 2000-02-24
PRIOR APPLICATION NUMBER: 60/254,465
PRIOR FILING DATE: 2000-12-08
PRIOR APPLICATION NUMBER: 60/254,498
PRIOR FILING DATE: 2000-12-08
NUMBER OF SEQ ID NOS: 16
SOFTWARE: PatentIn version 3.1
SEQ ID NO 11
LENGTH: 219
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Humanized antibodies
US-11-224-623-11
```

```
Query Match      68.8%; Score 33; DB 11; Length 219;
Best Local Similarity 85.7%; Pred. No. 24;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      3 CVOSTHV 9
      | | | | |
Db      93 CSOSTHV 99
```

RESULT 35
US-11-259-232-72
Sequence 72: Application US/11259232
Publication No. US20060083683A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc., Hseel, Vanessa
APPLICANT: Koumenis, Iphigenia
APPLICANT: Leong, Steven R.
APPLICANT: Shatrokh, Zahra
APPLICANT: Zapata, Gerardo A.
TITLE OF INVENTION: ANTIBODY FRAGMENT-POLYMER CONJUGATES AND USES OF SAME
FILE REFERENCE: P108586
CURRENT APPLICATION NUMBER: US/11/259,232
CURRENT FILING DATE: 2005-10-25
PRIOR APPLICATION NUMBER: US/09/489,394
PRIOR FILING DATE: 2000-01-21
PRIOR APPLICATION NUMBER: US 60/116,787
PRIOR FILING DATE: 1999-01-21
NUMBER OF SEQ ID NOS: 72
SEQ ID NO 72
LENGTH: 219
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
NAME/KEY: Artificial Sequence
LOCATION: 1-219
OTHER INFORMATION: recombinant immunoglobulin
US-11-259-232-72

Query Match 68.8%; Score 33; DB 11; Length 219;
Best Local Similarity 85.7%; Pred. No. 24;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 3 CVQSTHV 9
Db 93 CSQSTHV 99

RESULT 36
US-11-239-510-21
Sequence 21: Application US/11239510
Publication No. US20060063715A1
GENERAL INFORMATION:
APPLICANT: Whitlow, Marc
Wood, James F.
Hardman, Karl
Bird, Robert
Filpula, David
Rollence, Michelle
TITLE OF INVENTION: Multivalent Antigen-Binding Proteins
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.
STREET: 1100 New York Avenue, NW
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/11/239,510
FILING DATE: 29-Sep-2005
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/10/137,297
FILING DATE: 03-May-2002
APPLICATION NUMBER: US/09/443,213
FILING DATE: <Unknown>

APPLICATION NUMBER: US 09/166,094
FILING DATE: 05-OCT-1998
APPLICATION NUMBER: US 08/392,338
FILING DATE: 22-FEB-1995
APPLICATION NUMBER: US 07/989,846
FILING DATE: 20-NOV-1992
APPLICATION NUMBER: US 07/796,936
FILING DATE: 25-NOV-1991
ATTORNEY/AGENT INFORMATION:
NAME: Goldstein, Jorge A.
REGISTRATION NUMBER: 29,021
REFERENCE/DOCKET NUMBER: 0977,003000E
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 238 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 21:
US-11-239-510-21

Query Match 68.8%; Score 33; DB 11; Length 238;
Best Local Similarity 85.7%; Pred. No. 26;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 3 CVQSTHV 9
Db 93 CSQSTHV 99

RESULT 37
US-11-239-510-11
Sequence 11: Application US/11239510
Publication No. US20060063715A1
GENERAL INFORMATION:
APPLICANT: Whitlow, Marc
Wood, James F.
Hardman, Karl
Bird, Robert
Filpula, David
Rollence, Michelle
TITLE OF INVENTION: Multivalent Antigen-Binding Proteins
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.
STREET: 1100 New York Avenue, NW
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/11/239,510
FILING DATE: 29-Sep-2005
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/10/137,297
FILING DATE: 03-May-2002
APPLICATION NUMBER: US/09/443,213
FILING DATE: 05-OCT-1998
APPLICATION NUMBER: US 08/392,338
FILING DATE: 22-FEB-1995
APPLICATION NUMBER: US 07/989,846
FILING DATE: 20-NOV-1992

```

; APPLICATION NUMBER: US 07/796,936
; FILING DATE: 25-NOV-1991
; ATTORNEY/AGENT INFORMATION:
;   NAME: Goldstein, Jorge A.
;   REGISTRATION NUMBER: 29,021
;   REFERENCE/DOCKET NUMBER: 0977,003000E
; TELECOMMUNICATION INFORMATION:
;   TELEPHONE: (202) 371-2600
;   TELEFAX: (202) 371-2540
; INFORMATION FOR SEQ ID NO: 11:
;   SEQUENCE CHARACTERISTICS:
;     LENGTH: 240 amino acids
;     TYPE: amino acid
;     TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 11:
US-11-239-510-11

Query Match      68.8%; Score 33; DB 11; Length 240;
Best Local Similarity 85.7%; Pred. No. 26;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      3 CVQSTHV 9
      | | | | |
Db      93 CSQSTHV 99

RESULT 38
US-11-259-232-42
; Sequence 42, Application US/11259232
; Publication No. US20060083683A1
; GENERAL INFORMATION:
;   APPLICANT: Genentech, Inc., Hsai, Vanessa
;   APPLICANT: Koumenis, Iphigenia
;   APPLICANT: Leong, Steven R.
;   APPLICANT: Shahrokhi, Zahra
;   APPLICANT: Zapata, Gerardo A.
; TITLE OF INVENTION: ANTIBODY FRAGMENT-POLYMER CONJUGATES AND USES OF SAME
; FILE REFERENCE: P1085R6
; CURRENT APPLICATION NUMBER: US/11/259,232
; CURRENT FILING DATE: 2005-10-25
; PRIOR APPLICATION NUMBER: US/09/489,394
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: US 60/116,787
; PRIOR FILING DATE: 1999-01-21
; NUMBER OF SEQ ID NOS: 72
; SEQ ID NO 42
; LENGTH: 242
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
;   NAME/KEY: Artificial Sequence
;   LOCATION: 1-242
; OTHER INFORMATION: recombinant immunoglobulin
US-11-259-232-42

Query Match      68.8%; Score 33; DB 11; Length 242;
Best Local Similarity 85.7%; Pred. No. 26;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      3 CVQSTHV 9
      | | | | |
Db      116 CSQSTHV 122

RESULT 39
US-11-259-232-51
; Sequence 51, Application US/11259232
; Publication No. US20060083683A1
; GENERAL INFORMATION:
;   APPLICANT: Genentech, Inc., Hsai, Vanessa
;   APPLICANT: Koumenis, Iphigenia
;   APPLICANT: Leong, Steven R.
; APPLICATION:
US-11-259-232-51

; APPLICANT: Shahrokhi, Zahra
; APPLICANT: Zapata, Gerardo A.
; TITLE OF INVENTION: ANTIBODY FRAGMENT-POLYMER CONJUGATES AND USES OF SAME
; FILE REFERENCE: P1085R6
; CURRENT APPLICATION NUMBER: US/11/259,232
; CURRENT FILING DATE: 2005-10-25
; PRIOR APPLICATION NUMBER: US/09/489,394
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: US 60/116,787
; PRIOR FILING DATE: 1999-01-21
; NUMBER OF SEQ ID NOS: 72
; SEQ ID NO 51
; LENGTH: 242
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
;   NAME/KEY: Artificial Sequence
;   LOCATION: 1-242
; OTHER INFORMATION: recombinant immunoglobulin
US-11-259-232-51

Query Match      68.8%; Score 33; DB 11; Length 242;
Best Local Similarity 85.7%; Pred. No. 26;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      3 CVQSTHV 9
      | | | | |
Db      116 CSQSTHV 122

RESULT 40
US-11-259-232-56
; Sequence 56, Application US/11259232
; Publication No. US20060083683A1
; GENERAL INFORMATION:
;   APPLICANT: Genentech, Inc., Hsai, Vanessa
;   APPLICANT: Koumenis, Iphigenia
;   APPLICANT: Leong, Steven R.
;   APPLICANT: Shahrokhi, Zahra
;   APPLICANT: Zapata, Gerardo A.
; TITLE OF INVENTION: ANTIBODY FRAGMENT-POLYMER CONJUGATES AND USES OF SAME
; FILE REFERENCE: P1085R6
; CURRENT APPLICATION NUMBER: US/11/259,232
; CURRENT FILING DATE: 2005-10-25
; PRIOR APPLICATION NUMBER: US/09/489,394
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: US 60/116,787
; PRIOR FILING DATE: 1999-01-21
; NUMBER OF SEQ ID NOS: 72
; SEQ ID NO 56
; LENGTH: 242
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
;   NAME/KEY: Artificial Sequence
;   LOCATION: 1-242
; OTHER INFORMATION: recombinant immunoglobulin
US-11-259-232-56

Query Match      68.8%; Score 33; DB 11; Length 242;
Best Local Similarity 85.7%; Pred. No. 26;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      3 CVQSTHV 9
      | | | | |
Db      116 CSQSTHV 122

RESULT 41
US-11-259-232-62
; Sequence 62, Application US/11259232
; Publication No. US20060083683A1
; GENERAL INFORMATION:
US-11-259-232-62
```

APPLICANT: Genentech, Inc., Hseal, Vanessa
APPLICANT: Koumenis, Iphigenia
APPLICANT: Leong, Steven R.
APPLICANT: Shatrokh, Zahra
APPLICANT: Zapata, Gerardo A.
FILE OF INVENTION: ANTI-BODY FRAGMENT-POLYMER CONJUGATES AND USES OF SAME
FILE REFERENCE: PI085R6
CURRENT APPLICATION NUMBER: US/11/259,232
CURRENT FILING DATE: 2005-10-25
PRIOR APPLICATION NUMBER: US/09/489,394
PRIOR FILING DATE: 2000-01-21
PRIOR APPLICATION NUMBER: US 60/116,787
PRIOR FILING DATE: 1999-01-21
NUMBER OF SEQ ID NOS: 72
SEQ ID NO 62
LENGTH: 242
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
NAME/KEY: Artificial Sequence
LOCATION: 1-242
OTHER INFORMATION: recombinant immunoglobulin
US-11-259-232-62

Query Match 68.8%; Score 33; DB 11; Length 242;
Best Local Similarity 85.7%; Pred. No. 26;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 CVOSTHV 9
Db 116 CSOSTHV 122

RESULT 42
US-11-239-510-15
Sequence 15, Application US/11239510
Publication No. US20060063715A1
GENERAL INFORMATION:
APPLICANT: Whitlow, Marc
Wood, James F.
Hardman, Karl
Bird, Robert
Filpula, David
Rollence, Michelle
TITLE OF INVENTION: Multivalent Antigen-Binding Proteins
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.
STREET: 1100 New York Avenue, NW
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/11/239,510
FILING DATE: 29-Sep-2005
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/10/137,297
FILING DATE: 03-May-2002
APPLICATION NUMBER: US/09/443,213
FILING DATE: <Unknown>
APPLICATION NUMBER: US 09/166,094
FILING DATE: 05-OCT-1998
APPLICATION NUMBER: US 08/392,338
FILING DATE: 22-FEB-1995
APPLICATION NUMBER: US 07/989,846
FILING DATE: 20-NOV-1992

APPLICATION NUMBER: US 07/796,936
FILING DATE: 25-NOV-1991
ATTORNEY/AGENT INFORMATION:
NAME: Goldstein, Jorge A.
REGISTRATION NUMBER: 29,021
REFERENCE/DOCKET NUMBER: 0977.003000E
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2500
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 250 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 15:
US-11-239-510-15

Query Match 68.8%; Score 33; DB 11; Length 250;
Best Local Similarity 85.7%; Pred. No. 27;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 CVOSTHV 9
Db 93 CSOSTHV 99

RESULT 43
US-11-239-510-17
Sequence 17, Application US/11239510
Publication No. US20060063715A1
GENERAL INFORMATION:
APPLICANT: Whitlow, Marc
Wood, James F.
Hardman, Karl
Bird, Robert
Filpula, David
Rollence, Michelle
TITLE OF INVENTION: Multivalent Antigen-Binding Proteins
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.
STREET: 1100 New York Avenue, NW
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/11/239,510
FILING DATE: 29-Sep-2005
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/10/137,297
FILING DATE: 03-May-2002
APPLICATION NUMBER: US/09/443,213
FILING DATE: <Unknown>
APPLICATION NUMBER: US 09/166,094
FILING DATE: 05-OCT-1998
APPLICATION NUMBER: US 08/392,338
FILING DATE: 22-FEB-1995
APPLICATION NUMBER: US 07/989,846
FILING DATE: 20-NOV-1992
APPLICATION NUMBER: US 07/796,936
FILING DATE: 25-NOV-1991
ATTORNEY/AGENT INFORMATION:
NAME: Goldstein, Jorge A.
REGISTRATION NUMBER: 29,021
REFERENCE/DOCKET NUMBER: 0977.003000E

TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 253 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 17:
US-11-239-510-17

Query Match 68.8%; Score 33; DB 11; Length 253;
Best Local Similarity 85.7%; Pred. No. 27;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 CVOSTHV 9
Db 93 CSQSTHV 99

RESULT 44
US-11-096-568A-16988
; Sequence 16988, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; TITLE OF INVENTION: Therby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 16988
; LENGTH: 299
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(299)
; OTHER INFORMATION: Ceres Seq. ID no. 12355646
US-11-096-568A-16988

Query Match 68.8%; Score 33; DB 11; Length 299;
Best Local Similarity 62.5%; Pred. No. 32;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 LCVQSTHV 9
Db 75 LCLQETHL 82

RESULT 45
US-11-096-568A-16987
; Sequence 16987, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; TITLE OF INVENTION: Therby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 16987
; LENGTH: 304
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(304)
; OTHER INFORMATION: Ceres Seq. ID no. 12355645
US-11-096-568A-16987

Query Match 68.8%; Score 33; DB 11; Length 304;
Best Local Similarity 62.5%; Pred. No. 32;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 LCVQSTHV 9
Db 80 LCLQETHL 87

RESULT 46
US-10-505-928-79
; Sequence 79, Application US/10505928
; Publication No. US20060088532A1
; GENERAL INFORMATION:
; APPLICANT: Ludwig Institute for Cancer Research et al.
; TITLE OF INVENTION: LYMPHATIC ENDOTHELIAL GENES
; FILE REFERENCE: 28967/39178
; CURRENT APPLICATION NUMBER: US/10/505,928
; CURRENT FILING DATE: 2004-08-27
; PRIOR APPLICATION NUMBER: US 60/363,019
; PRIOR FILING DATE: 2002-03-07
; NUMBER OF SEQ ID NOS: 866
; SOFTWARE: PatentIn 3.2
; SEQ ID NO 79
; LENGTH: 306
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-505-928-79

Query Match 68.8%; Score 33; DB 8; Length 306;
Best Local Similarity 55.6%; Pred. No. 32;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 RLCVQSTHV 9
Db 68 RLCVMSSH 76

RESULT 47
US-11-096-568A-16986
; Sequence 16986, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; TITLE OF INVENTION: Therby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 16986
; LENGTH: 323
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(323)
; OTHER INFORMATION: Ceres Seq. ID no. 12355644
US-11-096-568A-16986

Query Match 68.8%; Score 33; DB 11; Length 323;
Best Local Similarity 62.5%; Pred. No. 34;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 LCVQSTHV 9
Db 99 LCLQETHL 106

RESULT 48
US-11-264-096-1917
; Sequence 1917, Application US/11264096

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/ Publication No. US20060084794A1
/ GENERAL INFORMATION:
/ APPLICANT: Rosen et al.
/ TITLE OF INVENTION: Albumin Fusion Proteins
/ FILE REFERENCE: PF546D1
/ CURRENT APPLICATION NUMBER: US/11/264,096
/ PRIOR FILING DATE: 2005-11-02
/ PRIOR APPLICATION NUMBER: 09/833,245
/ PRIOR FILING DATE: 2001-04-12
/ PRIOR APPLICATION NUMBER: 60/229, 358
/ PRIOR FILING DATE: 2000-04-12
/ PRIOR APPLICATION NUMBER: 60/256, 931
/ PRIOR FILING DATE: 2000-12-21
/ PRIOR APPLICATION NUMBER: 60/199, 384
/ PRIOR FILING DATE: 2000-04-25
/ NUMBER OF SEQ ID NOS: 2267
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 1917
/ LENGTH: 331
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: SITE
/ LOCATION: (249)
/ OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
/ FEATURE:
/ NAME/KEY: SITE
/ LOCATION: (257)
/ OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
/ FEATURE:
/ NAME/KEY: SITE
/ LOCATION: (298)
/ OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
/ FEATURE:
/ NAME/KEY: SITE
/ LOCATION: (300)
/ OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
/ FEATURE:
/ NAME/KEY: SITE
/ LOCATION: (301)
/ OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
/ US-11-264-096-1917

Query Match          68.8%; Score 33; DB 11; Length 331;
Best Local Similarity 55.6%; Pred. No. 35;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      1 RLCVQSTHV 9
Db      171 RLCWMSHL 179

RESULT 49
US-10-505-928-31
/ Sequence 31, Application US/10505928
/ Publication No. US20060088532A1
/ GENERAL INFORMATION:
/ APPLICANT: Ludwig Institute for Cancer Research et al.
/ TITLE OF INVENTION: LYMPHATIC ENDOTHELIAL GENES
/ FILE REFERENCE: 28967/39178
/ CURRENT APPLICATION NUMBER: US/10/505,928
/ PRIOR FILING DATE: 2004-08-27
/ PRIOR APPLICATION NUMBER: US 60/363,019
/ PRIOR FILING DATE: 2002-03-07
/ NUMBER OF SEQ ID NOS: 866
/ SOFTWARE: PatentIn 3.2
/ SEQ ID NO 31
/ LENGTH: 409
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ US-10-505-928-31

Query Match          68.8%; Score 33; DB 8; Length 409;
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Best Local Similarity 55.6%; Pred. No. 42;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      1 RLCVQSTHV 9
Db      171 RLCWMSHL 179

RESULT 50
US-11-264-096-1503
/ Sequence 1503, Application US/11264096
/ Publication No. US20060084794A1
/ GENERAL INFORMATION:
/ APPLICANT: Rosen et al.
/ TITLE OF INVENTION: Albumin Fusion Proteins
/ FILE REFERENCE: PF546D1
/ CURRENT APPLICATION NUMBER: US/11/264,096
/ PRIOR FILING DATE: 2005-11-02
/ PRIOR APPLICATION NUMBER: 09/833,245
/ PRIOR FILING DATE: 2001-04-12
/ PRIOR APPLICATION NUMBER: 60/229, 358
/ PRIOR FILING DATE: 2000-04-12
/ PRIOR APPLICATION NUMBER: 60/256, 931
/ PRIOR FILING DATE: 2000-12-21
/ PRIOR APPLICATION NUMBER: 60/199, 384
/ PRIOR FILING DATE: 2000-04-25
/ NUMBER OF SEQ ID NOS: 2267
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 1503
/ LENGTH: 409
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ US-11-264-096-1503

Query Match          68.8%; Score 33; DB 11; Length 409;
Best Local Similarity 55.6%; Pred. No. 42;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      1 RLCVQSTHV 9
Db      171 RLCWMSHL 179

Search completed: May 5, 2006, 08:18:47
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OM protein - protein search, using sw model

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Title: US-08-170-344-17

Perfect score: 44
Sequence: 1 TLEDLMGT 9

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Gapop 10.0, Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 1000 summaries

Database: Issued Patents AA: *
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2: /cgn2_6/ptodata/1/iaa/6_COMB.pep: *
3: /cgn2_6/ptodata/1/iaa/H_COMB.pep: *
4: /cgn2_6/ptodata/1/iaa/PCrUS_COMB.pep: *
5: /cgn2_6/ptodata/1/iaa/RE_COMB.pep: *
6: /cgn2_6/ptodata/1/iaa/backfile1.pep: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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3	44	100.0	10	2	US-10-365-908-42
4	44	100.0	20	2	US-08-075-541D-49
5	44	100.0	20	2	US-08-075-541D-50
6	44	100.0	20	2	US-09-980-177A-75
7	44	100.0	21	1	US-08-934-915-50
8	44	100.0	21	2	US-09-980-177A-76
9	44	100.0	26	2	US-08-075-541D-40
10	44	100.0	28	2	US-09-486-394-5
11	44	100.0	30	1	US-08-934-915-53
12	44	100.0	30	1	US-08-934-915-54
13	44	100.0	30	1	US-09-486-394-4
14	44	100.0	30	1	US-08-406-248-6
15	44	100.0	98	1	US-08-075-541D-42
16	44	100.0	98	2	US-09-382-616A-1
17	44	100.0	98	2	US-08-944-368A-4
18	44	100.0	98	2	US-09-820-764-4
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20	44	100.0	98	2	US-09-566-420-19
21	44	100.0	98	2	US-09-986-118A-4
22	44	100.0	98	2	US-09-728-466-1
23	44	100.0	98	2	US-09-824-017-4
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25	44	100.0	98	2	US-10-201-764-19
26	44	100.0	98	2	US-09-637-746-3
27	44	100.0	98	2	US-09-501-097A-7

28	44	100.0	98	2	US-09-980-523A-12	Sequence 12, Appl
29	44	100.0	121	2	US-09-613-303-12	Sequence 12, Appl
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31	44	100.0	172	2	US-08-860-165-14	Sequence 14, Appl
32	44	100.0	172	2	US-09-359-382-14	Sequence 14, Appl
33	44	100.0	185	2	US-09-462-993-2	Sequence 2, Appl
34	44	100.0	198	2	US-09-613-303-35	Sequence 35, Appl
35	44	100.0	198	2	US-10-267-311-35	Sequence 1, Appl
36	44	100.0	220	2	US-09-485-885-1	Sequence 8, Appl
37	44	100.0	220	2	US-09-485-885-8	Sequence 12, Appl
38	44	100.0	239	2	US-09-485-885-12	Sequence 20, Appl
39	44	100.0	253	1	US-08-459-818-20	Sequence 20, Appl
40	44	100.0	253	1	US-08-889-666-20	Sequence 20, Appl
41	44	100.0	253	1	US-08-465-078-20	Sequence 20, Appl
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43	44	100.0	253	1	US-08-488-062-20	Sequence 20, Appl
44	44	100.0	263	1	US-08-117-083-9	Sequence 9, Appl
45	44	100.0	263	1	US-08-860-165-10	Sequence 10, Appl
46	44	100.0	266	2	US-09-359-382-10	Sequence 10, Appl
47	44	100.0	266	2	US-09-167-309A-1	Sequence 25, Appl
48	44	100.0	287	2	US-09-501-097A-25	Sequence 33, Appl
49	44	100.0	295	2	US-09-613-303-33	Sequence 33, Appl
50	44	100.0	295	2	US-10-267-311-33	Sequence 25, Appl
51	44	100.0	324	2	US-09-613-303-25	Sequence 25, Appl
52	44	100.0	324	2	US-10-267-311-25	Sequence 6, Appl
53	44	100.0	371	2	US-09-485-885-6	Sequence 14, Appl
54	44	100.0	370	2	US-09-485-885-14	Sequence 22, Appl
55	44	100.0	420	2	US-09-501-097A-22	Sequence 19, Appl
56	44	100.0	493	2	US-09-613-303-19	Sequence 17, Appl
57	44	100.0	493	2	US-10-267-311-19	Sequence 17, Appl
58	44	100.0	639	2	US-09-613-303-17	Sequence 51, Appl
59	44	100.0	639	2	US-09-613-303-51	Sequence 51, Appl
60	44	100.0	641	2	US-10-267-311-51	Sequence 51, Appl
61	44	100.0	647	2	US-09-613-303-53	Sequence 51, Appl
62	44	100.0	647	2	US-10-267-311-53	Sequence 29, Appl
63	44	100.0	648	2	US-09-613-303-29	Sequence 29, Appl
64	44	100.0	648	2	US-10-267-311-29	Sequence 41, Appl
65	44	100.0	711	2	US-09-613-303-41	Sequence 41, Appl
66	44	100.0	711	2	US-10-267-311-41	Sequence 20, Appl
67	44	100.0	723	2	US-09-501-097A-20	Sequence 45, Appl
68	44	100.0	724	2	US-09-613-303-45	Sequence 45, Appl
69	44	100.0	724	2	US-10-267-311-45	Sequence 22, Appl
70	44	100.0	754	2	US-10-365-908-22	Sequence 18, Appl
71	39	88.6	19	2	US-09-980-523A-18	Sequence 17, Appl
72	39	88.6	21	1	US-08-934-915-157	Sequence 38, Appl
73	39	88.6	21	1	US-10-365-908-38	Sequence 38, Appl
74	35	79.5	10	2	US-08-858-207A-303	Sequence 39, Appl
75	34	77.3	96	2	US-09-583-110-3873	Sequence 39, Appl
76	34	77.3	106	2	US-09-107-433-3226	Sequence 51, Appl
77	34	77.3	110	2	US-09-583-110-5107	Sequence 42, Appl
78	34	77.3	127	2	US-09-583-110-4623	Sequence 21, Appl
79	34	77.3	132	2	US-09-107-433-2761	Sequence 51, Appl
80	34	77.3	132	2	US-09-583-110-5149	Sequence 36, Appl
81	34	77.3	133	2	US-09-107-433-1643	Sequence 36, Appl
82	34	77.3	135	2	US-09-107-433-2919	Sequence 37, Appl
83	34	77.3	167	2	US-09-583-110-3770	Sequence 46, Appl
84	34	77.3	180	2	US-09-583-110-4265	Sequence 32, Appl
85	34	77.3	191	2	US-09-107-433-3219	Sequence 46, Appl
86	34	77.3	191	2	US-09-107-433-3219	Sequence 39, Appl
87	34	77.3	194	2	US-10-365-908-39	Sequence 33, Appl
88	33.5	75.0	9	2	US-10-365-908-33	Sequence 10, Appl
89	33	75.0	9	2	US-10-365-908-109	Sequence 120, Appl
90	33	75.0	9	2	US-10-365-908-137	Sequence 137, Appl
91	33	75.0	10	2	US-10-365-908-134	Sequence 134, Appl
92	33	75.0	11	2	US-08-934-915-15	Sequence 76, Appl
93	33	75.0	30	1	US-08-934-915-76	Sequence 55, Appl
94	33	75.0	30	1	US-09-605-703B-556	Sequence 55, Appl
95	33	75.0	103	2	US-09-605-703B-558	Sequence 144, Appl
96	33	75.0	103	2	US-09-069-827A-144	Sequence 117, Appl
97	33	72.7	15	2	US-09-079-030-117	Sequence 2, Appl
98	32	72.7	172	2	US-08-336-891-2	Sequence 12, Appl
99	32	72.7	343	1		Sequence 12, Appl
100	32	72.7				Sequence 12, Appl

101	32	72.7	343	4	PCT-US95-13795-4	Sequence 4, App1	174	65.9	375	2	US-09-409-938-6	Sequence 6, App1
102	32	72.7	483	2	US-09-049-672A-5	Sequence 5, App1	175	65.9	381	2	US-09-252-991A-25170	Sequence 25170, A
103	32	72.7	487	2	US-09-800-729-145	Sequence 145, App	176	65.9	393	2	US-09-248-796A-22604	Sequence 22604, A
104	32	72.7	491	2	US-10-104-047-3243	Sequence 3243, Ap	177	65.9	403	2	US-09-409-938-4	Sequence 4, App1
105	32	72.7	494	2	US-09-800-729-216	Sequence 216, App	178	65.9	404	2	US-09-543-681A-4348	Sequence 4348, Ap
106	32	72.7	496	2	US-10-104-047-3006	Sequence 3006, Ap	179	65.9	404	2	US-09-489-030A-12611	Sequence 12611, A
107	32	72.7	497	2	US-10-104-047-3773	Sequence 3773, Ap	180	65.9	423	2	US-09-252-991A-29094	Sequence 29094, A
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109	32	72.7	508	2	US-10-104-047-3233	Sequence 3233, Ap	182	65.9	438	2	US-09-830-230A-18	Sequence 18, App1
110	32	72.7	530	2	US-09-800-729-112	Sequence 112, App	183	65.9	447	1	US-08-844-010-2	Sequence 2, App1
111	32	72.7	543	2	US-09-413-814-91	Sequence 91, App1	184	65.9	447	2	US-09-012-873-2	Sequence 2, App1
112	32	72.7	544	2	US-09-413-814-81	Sequence 81, App1	185	65.9	448	2	US-09-583-110-2928	Sequence 2928, Ap
113	32	72.7	544	2	US-08-131-1658-54	Sequence 54, App1	186	65.9	447	2	US-09-107-433-3371	Sequence 3371, Ap
114	32	72.7	1141	1	US-08-668-123-54	Sequence 54, App1	187	65.9	460	2	US-09-489-030A-12680	Sequence 12680, A
115	31	70.5	300	2	US-09-982-616-9	Sequence 9, App1	188	65.9	463	2	US-09-538-092-162	Sequence 162, App
116	31	70.5	377	2	US-09-248-796A-18772	Sequence 18772, A	189	65.9	463	2	US-09-830-230A-17	Sequence 17, App1
117	31	70.5	452	2	US-09-252-991A-23336	Sequence 23336, A	190	65.9	794	1	US-08-178-477B-2	Sequence 2, App1
118	31	70.5	547	2	US-09-949-016-8330	Sequence 8330, Ap	191	65.9	744	2	US-10-101-464A-942	Sequence 942, App
119	31	70.5	760	1	US-08-619-280A-2	Sequence 2, App1	192	65.9	785	2	US-09-710-279-264	Sequence 264, App
120	31	70.5	760	1	US-08-619-280A-2	Sequence 2, App1	193	65.9	818	2	US-09-248-796A-20792	Sequence 20792, A
121	31	70.5	760	1	US-08-619-280A-2	Sequence 2, App1	194	65.9	902	2	US-09-134-007C-5157	Sequence 5157, Ap
122	31	70.5	761	2	US-09-265-606-2	Sequence 2, App1	195	65.9	996	2	US-09-252-991A-27018	Sequence 27018, A
123	31	70.5	761	2	US-09-518-550-26	Sequence 26, App1	196	65.9	1182	2	US-09-902-540-9855	Sequence 9855, Ap
124	30	68.2	10	2	US-10-365-908-47	Sequence 47, App1	197	65.9	9	2	US-10-365-908-28	Sequence 28, App1
125	30	68.2	116	2	US-08-311-731A-27	Sequence 27, App1	198	65.9	10	2	US-10-365-908-37	Sequence 37, App1
126	30	68.2	129	2	US-09-949-016-7556	Sequence 7556, Ap	199	65.9	30	2	US-08-934-915-71	Sequence 71, App1
127	30	68.2	245	2	US-09-489-039A-14192	Sequence 14192, A	200	65.9	57	2	US-09-079-030-134	Sequence 134, App
128	30	68.2	246	2	US-09-532-856-4	Sequence 4, App1	201	65.9	47	2	US-09-902-540-10995	Sequence 10995, A
129	30	68.2	246	2	US-09-524-100C-4	Sequence 4, App1	202	65.9	64	2	US-09-583-110-3748	Sequence 3748, Ap
130	30	68.2	246	2	US-10-312-507-4	Sequence 225, App	203	65.9	68	2	US-09-543-681A-7888	Sequence 7888, Ap
131	30	68.2	246	2	US-09-991-181-225	Sequence 225, App	204	65.9	76	2	US-09-107-433-3856	Sequence 3856, Ap
132	30	68.2	246	2	US-09-990-444-225	Sequence 225, App	205	65.9	107	2	US-09-902-540-11853	Sequence 13853, A
133	30	68.2	246	2	US-09-997-333-225	Sequence 225, App	206	65.9	135	2	US-09-079-030-110	Sequence 130, App
134	30	68.2	246	2	US-09-992-598-225	Sequence 225, App	207	65.9	147	2	US-09-079-030-126	Sequence 126, App
135	30	68.2	254	2	US-09-252-991A-32919	Sequence 32919, A	208	65.9	172	2	US-09-270-767-42776	Sequence 42776, A
136	30	68.2	255	2	US-09-902-540-15986	Sequence 15986, A	209	65.9	172	2	US-09-270-767-37623	Sequence 37623, A
137	30	68.2	274	2	US-09-532-856-8	Sequence 8, App1	210	65.9	172	2	US-09-270-767-52840	Sequence 52840, A
138	30	68.2	274	2	US-09-524-100C-8	Sequence 8, App1	211	65.9	173	2	US-09-079-030-118	Sequence 118, App
139	30	68.2	274	2	US-10-412-507-8	Sequence 8, App1	212	65.9	179	2	US-09-079-030-116	Sequence 116, App
140	30	68.2	411	2	US-09-489-039A-14268	Sequence 14268, A	213	65.9	179	2	US-09-178-978B-16	Sequence 16, App1
141	30	68.2	453	2	US-09-540-236-2551	Sequence 2551, Ap	214	65.9	227	2	US-10-090-365-41	Sequence 41, App1
142	30	68.2	453	2	US-09-532-856-6	Sequence 6, App1	215	65.9	239	2	US-09-248-796A-21586	Sequence 21586, A
143	30	68.2	453	2	US-09-524-100C-6	Sequence 6, App1	216	65.9	239	2	US-09-107-532A-6758	Sequence 6758, Ap
144	30	68.2	453	2	US-10-212-507-6	Sequence 6, App1	217	65.9	240	2	US-09-439-913-2	Sequence 2, App1
145	30	68.2	562	2	US-09-674-826B-4	Sequence 4, App1	218	65.9	243	2	US-09-252-991A-29843	Sequence 29843, A
146	30	68.2	1225	2	US-09-583-110-3637	Sequence 3637, Ap	219	65.9	256	2	US-09-134-000C-4449	Sequence 4449, Ap
147	30	68.2	1239	2	US-09-107-433-4267	Sequence 4267, Ap	220	65.9	260	2	US-09-187-789-55	Sequence 55, App1
148	30	68.2	1562	2	US-09-320-878-3	Sequence 3, App1	221	65.9	260	2	US-09-139-600-50	Sequence 50, App1
149	30	68.2	1562	2	US-09-105-537-35	Sequence 35, App1	222	65.9	260	2	US-09-989-903-55	Sequence 55, App1
150	30	68.2	1562	2	US-09-141-808-4	Sequence 4, App1	223	65.9	261	2	US-09-252-991A-29069	Sequence 29069, A
151	30	68.2	1562	2	US-09-657-440-3	Sequence 3, App1	224	65.9	269	2	US-09-079-030-120	Sequence 120, App
152	30	68.2	1562	2	US-09-793-708-3	Sequence 3, App1	225	65.9	277	2	US-09-852-991A-18539	Sequence 18539, A
153	30	68.2	2662	2	US-09-595-684B-31	Sequence 31, App1	226	65.9	316	2	US-09-248-796A-16974	Sequence 16974, A
154	30	68.2	2663	2	US-09-538-092-1252	Sequence 1252, Ap	227	65.9	361	2	US-09-543-681A-5180	Sequence 5180, Ap
155	29	65.9	11877	2	US-09-105-537-6	Sequence 6, App1	228	65.9	379	2	US-09-107-532A-5334	Sequence 5334, Ap
156	29	65.9	10	2	US-10-365-908-131	Sequence 131, App	229	65.9	384	2	US-09-731-030A-11	Sequence 11, App1
157	29	65.9	69	2	US-08-864-357F-2	Sequence 2, App1	230	65.9	384	2	US-09-731-030A-13	Sequence 13, App1
158	29	65.9	138	2	US-09-252-991A-18056	Sequence 18056, A	231	65.9	397	2	US-09-634-233-223	Sequence 233, App
159	29	65.9	138	2	US-09-107-532A-6780	Sequence 6780, Ap	232	65.9	412	2	US-09-079-030-124	Sequence 124, App
160	29	65.9	143	2	US-09-902-540-11360	Sequence 11366, A	233	65.9	416	2	US-09-107-532A-6642	Sequence 6642, Ap
161	29	65.9	173	2	US-09-252-991A-31785	Sequence 31785, A	234	65.9	419	1	US-08-686-417-3	Sequence 3, App1
162	29	65.9	241	2	US-09-107-532A-4846	Sequence 4846, Ap	235	65.9	423	2	US-09-686-417-3	Sequence 18661, A
163	29	65.9	257	2	US-09-270-767-43610	Sequence 43610, Ap	236	65.9	426	2	US-09-673-399A-275	Sequence 275, App
164	29	65.9	307	2	US-09-107-532A-7040	Sequence 7040, Ap	237	65.9	440	2	US-09-538-092-1264	Sequence 1264, Ap
165	29	65.9	314	2	US-09-830-433A-480	Sequence 40, App1	238	65.9	451	2	US-09-888-243-28	Sequence 28, App1
166	29	65.9	315	2	US-09-902-540-14851	Sequence 14851, A	239	65.9	456	2	US-09-949-016-9294	Sequence 9294, Ap
167	29	65.9	323	2	US-09-252-991A-28667	Sequence 28667, A	240	65.9	466	2	US-09-270-767-43929	Sequence 43929, A
168	29	65.9	338	1	US-08-533-750C-4	Sequence 4, App1	241	65.9	481	2	US-09-330-095-1	Sequence 1, App1
169	29	65.9	338	1	US-09-234-613-4	Sequence 4, App1	242	65.9	496	2	US-09-079-955-2	Sequence 2, App1
170	29	65.9	340	2	US-09-248-796A-14931	Sequence 14931, A	243	65.9	496	2	US-09-080-127-2	Sequence 30, App1
171	29	65.9	341	2	US-09-107-532A-7087	Sequence 7087, Ap	244	65.9	500	2	US-09-875-076-30	Sequence 30, App1
172	29	65.9	341	2	US-09-605-703B-758	Sequence 758, App	245	65.9	509	1	US-08-845-566-1	Sequence 1, App1
173	29	65.9	343	2	US-09-902-540-15072	Sequence 15072, A	246	65.9	522	2	US-09-461-325-220	Sequence 220, App

247	28	63.6	522	2	US-10-012-542-220	Sequence 220, App	320	27	61.4	195	2	US-09-270-767-45492	Sequence 45492, A
248	28	63.6	522	2	US-10-115-123-220	Sequence 220, App	321	27	61.4	197	2	US-09-336-643A-16	Sequence 16, Appl
249	28	63.6	545	2	US-09-066-046-39	Sequence 39, Appl	322	27	61.4	207	2	US-09-489-039A-11472	Sequence 11472, A
250	28	63.6	546	2	US-09-252-991A-19122	Sequence 19122, A	323	27	61.4	207	2	US-09-809-665A-165	Sequence 165, App
251	28	63.6	555	2	US-09-461-325-251	Sequence 251, App	324	27	61.4	212	2	US-09-599-368A-94	Sequence 94, Appl
252	28	63.6	555	2	US-10-012-542-251	Sequence 251, App	325	27	61.4	216	2	US-09-489-039B-1602	Sequence 1602, A
253	28	63.6	555	2	US-10-115-123-251	Sequence 251, App	326	27	61.4	222	2	US-09-902-540-15120	Sequence 15120, A
254	28	63.6	574	2	US-09-991-181-340	Sequence 340, App	327	27	61.4	224	2	US-09-270-767-44834	Sequence 44834, A
255	28	63.6	574	2	US-09-990-444-340	Sequence 340, App	328	27	61.4	226	2	US-09-489-039A-11115	Sequence 12115, A
256	28	63.6	574	2	US-09-997-333-340	Sequence 340, App	329	27	61.4	226	2	US-09-134-001C-4399	Sequence 4399, Ap
257	28	63.6	574	2	US-09-992-598-340	Sequence 340, App	330	27	61.4	250	2	US-09-902-540-12400	Sequence 12400, A
258	28	63.6	580	2	US-09-188-930-307	Sequence 307, App	331	27	61.4	255	2	US-09-107-532A-4920	Sequence 4920, Ap
259	28	63.6	580	2	US-09-312-283C-307	Sequence 307, App	332	27	61.4	257	2	US-09-949-016-6654	Sequence 6654, Ap
260	28	63.6	597	2	US-09-902-540-14203	Sequence 14203, A	333	27	61.4	259	2	US-09-134-000C-3868	Sequence 3868, Ap
261	28	63.6	625	1	US-08-365-981-14	Sequence 14, Appl	334	27	61.4	259	2	US-09-605-703B-2572	Sequence 2572, Ap
262	28	63.6	631	2	US-09-252-991A-26007	Sequence 26007, A	335	27	61.4	273	2	US-09-949-016-7794	Sequence 7794, Ap
263	28	63.6	687	2	US-09-328-352-5840	Sequence 5840, Ap	336	27	61.4	280	2	US-09-770-767-60682	Sequence 60682, A
264	28	63.6	759	2	US-09-252-991A-33071	Sequence 33071, A	337	27	61.4	282	2	US-09-252-991A-31742	Sequence 31742, A
265	28	63.6	763	2	US-08-961-083-66	Sequence 66, Appl	338	27	61.4	282	2	US-09-982-616-8	Sequence 26263, A
266	28	63.6	763	2	US-09-536-784-66	Sequence 66, Appl	339	27	61.4	283	2	US-09-352-991A-26263	Sequence 26263, A
267	28	63.6	763	2	US-09-765-271-66	Sequence 66, Appl	340	27	61.4	308	2	US-09-198-452A-310	Sequence 310, App
268	28	63.6	763	2	US-09-765-272A-66	Sequence 66, Appl	341	27	61.4	311	2	US-09-248-796A-17937	Sequence 17937, A
269	28	63.6	819	2	US-09-468-656A-10	Sequence 10, Appl	342	27	61.4	313	2	US-09-107-532A-7154	Sequence 7154, A
270	28	63.6	826	2	US-09-769-787-194	Sequence 194, App	343	27	61.4	317	2	US-09-438-185A-299	Sequence 299, App
271	28	63.6	830	2	US-09-107-433-309	Sequence 4309, App	344	27	61.4	325	2	US-09-215-569B-6	Sequence 6, Appl
272	28	63.6	838	2	US-09-252-991A-25809	Sequence 25809, A	345	27	61.4	325	2	US-09-605-703B-318	Sequence 318, App
273	28	63.6	845	2	US-09-468-656A-4	Sequence 4, Appl	346	27	61.4	332	2	US-09-949-016-9130	Sequence 9130, Ap
274	28	63.6	845	2	US-09-538-092-932	Sequence 932, App	347	27	61.4	335	2	US-09-902-540-14394	Sequence 14394, A
275	28	63.6	851	2	US-09-583-110-1850	Sequence 3850, App	348	27	61.4	339	2	US-09-491-577-4	Sequence 4, Appl
276	28	63.6	860	2	US-09-959-016-7553	Sequence 7553, Ap	349	27	61.4	342	2	US-09-902-540-12212	Sequence 12212, A
277	28	63.6	879	2	US-09-252-991A-22604	Sequence 22604, A	350	27	61.4	382	2	US-09-180-109A-2	Sequence 2, Appl
278	28	63.6	978	2	US-09-198-452A-1055	Sequence 1055, Ap	351	27	61.4	387	2	US-09-180-109A-6	Sequence 6, Appl
279	28	63.6	978	2	US-09-438-185A-982	Sequence 982, App	352	27	61.4	387	2	US-09-459-133-13	Sequence 13, Appl
280	28	63.6	1088	2	US-09-328-352-5723	Sequence 5723, Ap	353	27	61.4	387	2	US-08-868-288A-5	Sequence 5, Appl
281	28	63.6	1127	2	US-09-902-540-11084	Sequence 11084, A	354	27	61.4	397	1	US-09-235-773-5	Sequence 5, Appl
282	28	63.6	1147	1	US-08-131-355B-38	Sequence 38, Appl	355	27	61.4	397	2	US-09-368-431-16	Sequence 16, App
283	28	63.6	1147	1	US-08-668-133-38	Sequence 38, Appl	356	27	61.4	397	2	US-09-368-431-17	Sequence 17, Appl
284	28	63.6	1147	1	US-09-949-016-9845	Sequence 9845, Ap	357	27	61.4	397	2	US-09-501-714-5	Sequence 5, Appl
285	28	63.6	1179	2	US-09-949-016-7088	Sequence 7088, Ap	358	27	61.4	397	2	US-09-620-405B-495	Sequence 495, App
286	28	63.6	1251	2	US-09-252-991A-17263	Sequence 17263, A	359	27	61.4	410	2	US-08-834-759-495	Sequence 495, App
287	28	63.6	1358	1	US-08-404-665-4	Sequence 4, Appl	360	27	61.4	410	2	US-10-076-622-495	Sequence 495, App
288	28	63.6	1358	1	US-08-404-671-4	Sequence 4, Appl	361	27	61.4	410	2	US-08-492-459-2	Sequence 2, Appl
289	28	63.6	1358	1	US-08-404-781-4	Sequence 4, Appl	362	27	61.4	422	2	US-08-492-459-4	Sequence 4, Appl
290	28	63.6	1358	1	US-09-949-002-353	Sequence 353, App	363	27	61.4	422	2	US-08-423-752-2	Sequence 2, Appl
291	28	63.6	1385	2	US-09-949-002-431	Sequence 431, App	364	27	61.4	422	2	US-08-423-752-4	Sequence 4, Appl
292	28	63.6	1385	2	US-09-902-540-15506	Sequence 15506, A	365	27	61.4	422	2	US-08-423-752-7	Sequence 7, Appl
293	28	63.6	3852	2	US-10-025-225-4	Sequence 4, Appl	366	27	61.4	422	2	US-08-716-873-7	Sequence 7, Appl
294	28	63.6	4585	2	US-10-025-225-6	Sequence 6, Appl	367	27	61.4	422	2	US-08-716-873-16	Sequence 16, Appl
295	28	63.6	4588	2	US-10-025-225-8	Sequence 8, Appl	368	27	61.4	422	2	US-08-716-873-18	Sequence 18, Appl
296	28	63.6	4589	2	US-10-025-225-2	Sequence 2, Appl	369	27	61.4	422	2	US-08-716-873-18	Sequence 18, Appl
297	27.5	62.5	82	2	US-09-270-767-45813	Sequence 45813, A	370	27	61.4	422	2	US-09-368-431-16	Sequence 16, Appl
298	27.5	62.5	405	2	US-09-270-767-44068	Sequence 44068, A	371	27	61.4	422	2	US-09-368-431-17	Sequence 17, Appl
299	27	61.4	21	6	5196511-11	Patent No. 5196511	372	27	61.4	422	2	US-09-368-431-18	Sequence 18, Appl
300	27	61.4	23	2	US-09-581-094-7	Sequence 7, Appl	373	27	61.4	422	2	US-09-414-006-2	Sequence 2, Appl
301	27	61.4	77	2	US-09-248-796A-27236	Sequence 27236, A	374	27	61.4	422	2	US-09-414-006-4	Sequence 4, Appl
302	27	61.4	102	2	US-09-513-999C-6830	Sequence 6830, Ap	375	27	61.4	422	2	US-09-447-006-4	Sequence 2, Appl
303	27	61.4	103	2	US-08-180-371-12	Sequence 12, Appl	376	27	61.4	422	2	US-09-447-006-4	Sequence 2, Appl
304	27	61.4	108	2	US-09-187-859-40	Sequence 40, Appl	377	27	61.4	422	2	US-09-447-006-4	Sequence 2, Appl
305	27	61.4	108	2	US-09-839-542B-40	Sequence 40, Appl	378	27	61.4	422	2	US-09-951-217-16	Sequence 16, Appl
306	27	61.4	108	2	US-09-535-852-40	Sequence 40, Appl	379	27	61.4	422	2	US-09-951-217-16	Sequence 16, Appl
307	27	61.4	108	2	US-10-006-869-40	Sequence 40, Appl	380	27	61.4	422	2	US-09-951-217-16	Sequence 16, Appl
308	27	61.4	113	2	US-09-248-796A-16255	Sequence 16255, A	381	27	61.4	422	2	US-09-951-217-16	Sequence 16, Appl
309	27	61.4	118	2	US-09-252-991A-23679	Sequence 23679, A	382	27	61.4	422	2	US-09-252-991A-26008	Sequence 26008, A
310	27	61.4	127	2	US-09-370-838-199	Sequence 199, App	383	27	61.4	422	2	US-09-902-540-15992	Sequence 15992, A
311	27	61.4	127	2	US-09-854-133-199	Sequence 199, App	384	27	61.4	422	2	US-09-252-991A-32904	Sequence 32904, A
312	27	61.4	137	2	US-09-902-540-16133	Sequence 16133, A	385	27	61.4	422	2	US-09-328-352-1269	Sequence 7269, Ap
313	27	61.4	158	2	US-09-902-540-16114	Sequence 16114, A	386	27	61.4	422	2	US-09-540-236-330	Sequence 6090, Ap
314	27	61.4	164	2	US-09-270-767-44090	Sequence 44090, A	387	27	61.4	422	2	US-09-543-601A-6044	Sequence 6044, Ap
315	27	61.4	179	2	US-09-178-973B-15	Sequence 15, Appl	388	27	61.4	422	2	US-09-543-601A-6044	Sequence 6044, Ap
316	27	61.4	179	2	US-09-419-568F-27	Sequence 27, Appl	389	27	61.4	422	2	US-09-489-039A-10061	Sequence 10061, A
317	27	61.4	179	2	US-09-354-243B-27	Sequence 27, Appl	390	27	61.4	422	2	US-09-950-022A-2	Sequence 2, Appl
318	27	61.4	179	2	US-09-902-540-11311	Sequence 11311, A	391	27	61.4	422	2	US-09-950-022A-2	Sequence 2, Appl
319	27	61.4	180	2	US-10-084-298-4	Sequence 4, Appl	392	27	61.4	422	2	US-09-950-022A-6	Sequence 6, Appl

393	27	61.4	464	2	US-09-950-022A-8	Sequence 8, Appl1	466	26.5	60.2	261	2	US-09-638-695-2	Sequence 2, Appl1
394	27	61.4	464	2	US-09-950-022A-10	Sequence 10, Appl1	467	26.5	60.2	354	2	US-09-605-703B-470	Sequence 470, App
395	27	61.4	478	2	US-09-769-787-55	Sequence 55, Appl1	468	26	59.1	14	1	US-07-807-529A-33	Sequence 33, Appl1
396	27	61.4	492	2	US-09-583-110-4046	Sequence 4046, Ap	469	26	59.1	14	2	US-08-300-928C-82	Sequence 82, Appl1
397	27	61.4	498	1	US-08-357-598-9	Sequence 9, Appl1	470	26	59.1	14	2	US-08-430-944D-82	Sequence 82, Appl1
398	27	61.4	498	1	US-09-003-289-9	Sequence 9, Appl1	471	26	59.1	14	2	US-08-430-014-82	Sequence 82, Appl1
399	27	61.4	498	2	US-09-252-991A-20702	Sequence 20702, A	472	26	59.1	14	2	US-08-431-184-82	Sequence 82, Appl1
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401	27	61.4	507	2	US-09-902-540-16798	Sequence 16798, A	474	26	59.1	19	1	US-07-807-529A-11	Sequence 11, Appl1
402	27	61.4	510	1	US-09-021-323-1	Sequence 1, Appl1	475	26	59.1	19	1	US-08-300-928C-21	Sequence 21, Appl1
403	27	61.4	510	2	US-09-107-433-3148	Sequence 3148, Ap	476	26	59.1	19	2	US-08-430-944D-21	Sequence 21, Appl1
404	27	61.4	510	2	US-09-991-181-67	Sequence 67, Appl1	477	26	59.1	19	2	US-08-430-014-21	Sequence 21, Appl1
405	27	61.4	510	2	US-09-990-444-67	Sequence 67, Appl1	478	26	59.1	19	2	US-08-431-184-21	Sequence 21, Appl1
406	27	61.4	510	2	US-09-700-769-10	Sequence 10, Appl1	479	26	59.1	19	4	PCT-US93-02462-11	Sequence 11, Appl1
407	27	61.4	510	2	US-09-997-333-67	Sequence 67, Appl1	480	26	59.1	23	1	US-08-086-428B-155	Sequence 155, App
408	27	61.4	510	2	US-09-992-598-67	Sequence 67, Appl1	481	26	59.1	23	1	US-08-468-570-155	Sequence 155, App
409	27	61.4	512	2	US-09-902-540-13924	Sequence 13924, A	482	26	59.1	23	1	US-08-290-665A-259	Sequence 259, App
410	27	61.4	513	2	US-08-924-183-8	Sequence 8, Appl1	483	26	59.1	23	2	US-08-466-601A-155	Sequence 155, App
411	27	61.4	513	2	US-09-488-364-8	Sequence 8, Appl1	484	26	59.1	23	2	US-09-581-094-8	Sequence 8, Appl1
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413	27	61.4	534	2	US-09-134-000C-5087	Sequence 5087, App	486	26	59.1	29	1	US-07-681-701-9	Sequence 9, Appl1
414	27	61.4	534	2	US-09-710-279-920	Sequence 920, App	487	26	59.1	29	2	US-09-962-756-1406	Sequence 1406, Appl1
415	27	61.4	551	2	US-09-902-540-16701	Sequence 16701, A	488	26	59.1	44	1	US-08-777-708C-2	Sequence 2, Appl1
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417	27	61.4	554	2	US-08-180-371-2	Sequence 2, Appl1	490	26	59.1	77	2	US-08-777-708C-23	Sequence 23, Appl1
418	27	61.4	554	4	PCT-US92-05707-2	Sequence 2, Appl1	491	26	59.1	77	2	US-09-134-001C-4035	Sequence 4035, App
419	27	61.4	558	2	US-09-489-039A-8857	Sequence 8857, App	492	26	59.1	83	2	US-09-543-681A-4559	Sequence 4559, App
420	27	61.4	564	2	US-09-710-279-3220	Sequence 3220, App	493	26	59.1	90	2	US-08-300-928C-14	Sequence 14, Appl1
421	27	61.4	571	2	US-09-902-540-16194	Sequence 16194, A	494	26	59.1	90	2	US-08-430-944D-14	Sequence 14, Appl1
422	27	61.4	582	2	US-09-187-999-13	Sequence 13, Appl1	495	26	59.1	90	2	US-08-430-014-14	Sequence 14, Appl1
423	27	61.4	587	2	US-09-248-796A-15666	Sequence 15666, A	496	26	59.1	90	2	US-08-431-184-14	Sequence 14, Appl1
424	27	61.4	592	2	US-09-377-155-17	Sequence 17, Appl1	497	26	59.1	91	2	US-09-107-433-4174	Sequence 4174, App
425	27	61.4	592	2	US-09-669-974-17	Sequence 17, Appl1	498	26	59.1	91	2	US-10-014-269-24	Sequence 24, Appl1
426	27	61.4	592	2	US-09-797-862-17	Sequence 17, Appl1	499	26	59.1	91	2	US-10-002-974-24	Sequence 24, Appl1
427	27	61.4	592	2	US-09-302-626B-110	Sequence 110, App	500	26	59.1	92	2	US-08-300-928C-13	Sequence 13, Appl1
428	27	61.4	593	2	US-09-328-352-4462	Sequence 4462, App	501	26	59.1	92	2	US-08-430-944D-13	Sequence 13, Appl1
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430	27	61.4	595	2	US-09-543-681A-6008	Sequence 6008, App	503	26	59.1	92	2	US-08-431-184-13	Sequence 13, Appl1
431	27	61.4	625	2	US-09-949-016-11531	Sequence 11531, A	504	26	59.1	92	2	US-09-205-258-890	Sequence 890, App
432	27	61.4	629	1	US-08-250-740-33	Sequence 33, Appl1	505	26	59.1	92	2	US-09-142-885C-11	Sequence 11, Appl1
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434	27	61.4	629	2	US-09-106-375-2	Sequence 2, Appl1	507	26	59.1	109	1	US-07-662-193-5	Sequence 5, Appl1
435	27	61.4	629	2	US-09-248-796A-14535	Sequence 14535, A	508	26	59.1	109	1	US-07-807-529A-6	Sequence 6, Appl1
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437	27	61.4	641	1	US-08-161-999-3	Sequence 3, Appl1	510	26	59.1	109	2	US-08-430-944D-8	Sequence 8, Appl1
438	27	61.4	646	2	US-09-949-016-11491	Sequence 11491, A	511	26	59.1	109	2	US-08-430-014-8	Sequence 8, Appl1
439	27	61.4	672	2	US-09-252-991A-17229	Sequence 17229, A	512	26	59.1	109	2	US-08-431-184-8	Sequence 8, Appl1
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445	27	61.4	909	2	US-09-425-383-2	Sequence 2, Appl1	518	26	59.1	111	2	US-08-430-944D-6	Sequence 6, Appl1
446	27	61.4	935	2	US-09-107-532A-3753	Sequence 3753, App	519	26	59.1	111	2	US-08-430-014-6	Sequence 6, Appl1
447	27	61.4	940	2	US-09-198-452A-111	Sequence 111, App	520	26	59.1	111	2	US-08-431-184-6	Sequence 6, Appl1
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449	27	61.4	994	2	US-09-902-540-13822	Sequence 13822, A	522	26	59.1	136	2	US-09-270-767-43071	Sequence 43071, App
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453	27	61.4	1094	2	US-09-268-347-32	Sequence 32, Appl1	526	26	59.1	145	2	US-09-621-976-4902	Sequence 4902, App
454	27	61.4	1189	2	US-09-489-039A-13776	Sequence 13776, A	527	26	59.1	149	2	US-08-836-075A-8	Sequence 8, Appl1
455	27	61.4	1273	2	US-09-170-496D-289	Sequence 289, App	528	26	59.1	149	2	US-08-635-886C-280	Sequence 280, App
456	27	61.4	1273	2	US-09-364-425B-54	Sequence 54, Appl1	529	26	59.1	149	2	US-08-974-990C-180	Sequence 180, App
457	27	61.4	1867	2	US-09-824-574-5	Sequence 54, Appl1	530	26	59.1	152	2	US-09-248-796A-15958	Sequence 15958, App
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465	26	60.2	261	2	US-09-347-878-50	Sequence 50, Appl1	538	26	59.1	166	1	US-08-483-695-32	Sequence 32, Appl1

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547	26	59.1	192	1	US-08-086-4288-94	Sequence 94, Appl	620	26	59.1	345	2	US-09-468-647A-110	Sequence 110, App
548	26	59.1	192	1	US-08-468-570-93	Sequence 93, Appl	621	26	59.1	345	2	US-09-468-647A-110	Sequence 110, App
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550	26	59.1	192	1	US-08-230-665A-93	Sequence 93, Appl	623	26	59.1	345	2	US-10-226-559-5	Sequence 5, Appl
551	26	59.1	192	2	US-08-230-665A-94	Sequence 94, Appl	624	26	59.1	345	2	US-09-541-752-2	Sequence 2, Appl
552	26	59.1	192	2	US-08-466-601A-93	Sequence 93, Appl	625	26	59.1	345	2	US-09-695-121-2	Sequence 2, Appl
553	26	59.1	192	2	US-08-466-601A-94	Sequence 94, Appl	626	26	59.1	345	2	US-09-999-833A-488	Sequence 488, App
554	26	59.1	192	4	PCT-US95-10398-93	Sequence 93, Appl	627	26	59.1	345	2	US-10-020-445A-488	Sequence 33, Appl
555	26	59.1	192	4	PCT-US95-10398-94	Sequence 94, Appl	628	26	59.1	345	2	US-09-876-813A-33	Sequence 4004, Ap
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557	26	59.1	202	2	US-09-902-540-15713	Sequence 15713, A	630	26	59.1	354	2	US-09-468-647A-120	Sequence 120, App
558	26	59.1	210	2	US-09-605-703B-1460	Sequence 1460, Ap	631	26	59.1	354	2	US-09-468-647A-122	Sequence 122, App
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562	26	59.1	219	2	US-10-065-200A-65	Sequence 65, Appl	635	26	59.1	372	2	US-09-328-352-5676	Sequence 118, App
563	26	59.1	219	2	US-10-065-200A-67	Sequence 67, Appl	636	26	59.1	374	2	US-09-468-647A-118	Sequence 260, App
564	26	59.1	219	2	US-09-107-433-3664	Sequence 3664, Ap	637	26	59.1	375	2	US-09-634-338-260	Sequence 15504, A
565	26	59.1	225	2	US-09-605-703B-1224	Sequence 1224, Ap	638	26	59.1	384	2	US-09-248-796A-19504	Sequence 10230, A
566	26	59.1	234	2	US-09-602-787A-234	Sequence 234, App	639	26	59.1	384	2	US-09-949-016-10230	Sequence 4, Appl
567	26	59.1	241	2	US-09-198-452A-1044	Sequence 1044, Ap	640	26	59.1	384	2	US-09-328-352-484	Sequence 7844, Ap
568	26	59.1	241	2	US-09-438-185A-972	Sequence 972, App	641	26	59.1	384	2	US-09-518-383-4	Sequence 4, Appl
569	26	59.1	251	2	US-09-540-226-3483	Sequence 3483, Ap	642	26	59.1	391	2	US-09-377-557-18	Sequence 18, Appl
570	26	59.1	254	2	US-09-134-000C-6525	Sequence 6525, Ap	643	26	59.1	392	2	US-09-416-050A-2	Sequence 2, Appl
571	26	59.1	254	2	US-09-902-540-11698	Sequence 11698, A	644	26	59.1	392	2	US-09-664-800-2	Sequence 2, Appl
572	26	59.1	258	2	US-08-635-886C-197	Sequence 197, App	645	26	59.1	392	2	US-09-665-309-2	Sequence 2, Appl
573	26	59.1	258	2	US-09-107-532A-4489	Sequence 4489, Ap	646	26	59.1	392	2	US-09-661-569-2	Sequence 375, App
574	26	59.1	258	2	US-08-974-630C-197	Sequence 197, App	647	26	59.1	392	2	US-09-711-164-375	Sequence 6239, Ap
575	26	59.1	259	2	US-09-134-000C-4875	Sequence 4875, Ap	648	26	59.1	392	2	US-09-459-133-2	Sequence 2, Appl
576	26	59.1	260	2	US-09-205-258-346	Sequence 346, App	649	26	59.1	392	2	US-09-134-000C-6239	Sequence 6148, Ap
577	26	59.1	260	2	US-10-004-860-346	Sequence 346, App	650	26	59.1	398	2	US-09-107-532A-6418	Sequence 2, Appl
578	26	59.1	263	2	US-09-248-796A-15137	Sequence 15137, A	651	26	59.1	408	2	US-09-074-912-2	Sequence 2, Appl
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583	26	59.1	291	1	US-08-487-826B-25	Sequence 13, Appl	656	26	59.1	408	2	US-09-755-630B-287	Sequence 287, App
584	26	59.1	291	2	US-09-210-288-13	Sequence 13, Appl	657	26	59.1	408	2	US-09-755-630B-287	Sequence 7, Appl
585	26	59.1	291	2	US-10-153-273-13	Sequence 13, Appl	658	26	59.1	408	2	US-10-658-180-287	Sequence 6107, App
586	26	59.1	294	2	US-09-252-991A-20737	Sequence 20737, A	659	26	59.1	419	2	US-09-543-681A-6107	Sequence 10, Appl
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588	26	59.1	302	2	US-09-564-595D-54	Sequence 54, Appl	661	26	59.1	421	2	US-09-516-747-10	Sequence 14599, A
589	26	59.1	303	2	US-09-564-595D-57	Sequence 57, Appl	662	26	59.1	421	2	US-09-902-540-14599	Sequence 10, Appl
590	26	59.1	308	2	US-09-198-452A-606	Sequence 606, App	663	26	59.1	421	4	PCT-US96-10521-11379	Sequence 11379, A
591	26	59.1	308	2	US-09-438-185A-569	Sequence 569, App	664	26	59.1	422	4	US-09-949-016-11379	Sequence 9, Appl
592	26	59.1	311	2	US-09-557-262-2	Sequence 2, Appl	665	26	59.1	424	2	US-09-489-039A-7974	Sequence 7974, Ap
593	26	59.1	312	2	US-08-258-287B-55	Sequence 55, Appl	666	26	59.1	424	2	US-09-328-352-7974	Sequence 27634, A
594	26	59.1	312	2	US-08-368-704C-53	Sequence 53, Appl	667	26	59.1	425	2	US-09-252-991A-27634	Sequence 21851, A
595	26	59.1	313	2	US-09-134-000C-6101	Sequence 6101, Ap	668	26	59.1	429	2	US-09-252-991A-21851	Sequence 4, Appl
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597	26	59.1	323	2	US-09-468-647A-1	Sequence 1, Appl	670	26	59.1	434	2	US-09-964-889-45	Sequence 45, Appl
598	26	59.1	325	2	US-09-252-991A-18010	Sequence 18010, A	671	26	59.1	434	2	US-09-258-287B-53	Sequence 53, Appl
599	26	59.1	330	2	US-09-949-016-7278	Sequence 7278, Ap	672	26	59.1	435	2	US-08-368-704C-51	Sequence 51, Appl
600	26	59.1	330	2	US-09-359-161-6	Sequence 6, Appl	673	26	59.1	435	2	US-08-368-704C-51	Sequence 9, Appl
601	26	59.1	331	1	US-08-878-989-21	Sequence 21, Appl	674	26	59.1	435	2	US-09-227-721-9	Sequence 9, Appl
602	26	59.1	331	2	US-09-101-146-64	Sequence 64, Appl	675	26	59.1	435	2	US-08-816-075-2	Sequence 9, Appl
603	26	59.1	331	2	US-09-272-796-21	Sequence 21, Appl	676	26	59.1	435	2	US-08-724-378D-9	Sequence 9, Appl
604	26	59.1	331	2	US-09-538-092-1211	Sequence 1211, Ap	677	26	59.1	435	2	US-09-954-637-9	Sequence 9, Appl
605	26	59.1	334	2	US-09-605-703B-1222	Sequence 1222, Ap	678	26	59.1	435	2	US-09-291-289-10	Sequence 10, Appl
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607	26	59.1	340	1	US-08-462-195-2	Sequence 2, Appl	680	26	59.1	435	4	PCT-US94-07127A-4	Sequence 44, Appl
608	26	59.1	340	1	US-08-636-883-2	Sequence 2, Appl	681	26	59.1	441	2	US-08-258-287B-44	Sequence 43, Appl
609	26	59.1	340	2	US-09-127-829-2	Sequence 2, Appl	682	26	59.1	441	2	US-08-368-704C-43	Sequence 43, Appl
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686	26	59.1	450	2	US-08-974-690C-189	Sequence 189, App	759	26	59.1	655	2	US-09-245-808-1	Sequence 1, App11
687	26	59.1	453	2	US-09-491-577-44	Sequence 44, App1	760	26	59.1	655	2	US-09-767-594-1	Sequence 1, App11
688	26	59.1	455	2	US-09-270-767-33247	Sequence 33247, A	761	26	59.1	655	2	US-09-584-586-10	Sequence 10, App1
689	26	59.1	455	2	US-09-270-767-48464	Sequence 48464, A	762	26	59.1	657	2	US-09-584-586-14	Sequence 14, App1
690	26	59.1	455	2	US-10-104-047-3818	Sequence 3818, Ap	763	26	59.1	661	2	US-10-037-417-107	Sequence 107, App
691	26	59.1	455	2	US-09-902-540-13166	Sequence 13166, A	764	26	59.1	664	2	US-09-805-455-5	Sequence 5, App1
692	26	59.1	470	2	US-09-248-796A-18488	Sequence 18488, A	765	26	59.1	666	2	US-09-134-001C-5465	Sequence 5465, App
693	26	59.1	475	2	US-09-252-991A-20366	Sequence 20366, A	766	26	59.1	668	2	US-09-324-991A-32973	Sequence 32973, A
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982 25 56.8 250 2 US-09-724-884-12 Sequence 12, Appl
983 25 56.8 250 2 US-09-724-884-12 Sequence 12, Appl
984 25 56.8 250 2 US-09-673-222-12 Sequence 12, Appl
985 25 56.8 251 2 US-09-252-991A-23816 Sequence 23816, A
986 25 56.8 252 2 US-09-902-540-13250 Sequence 13250, A
987 25 56.8 252 2 US-09-107-433-4875 Sequence 4875, Ap
988 25 56.8 256 2 US-09-248-796A-21111 Sequence 21111, A
989 25 56.8 257 2 US-09-270-767-44281 Sequence 44281, A
990 25 56.8 257 2 US-09-134-001C-3361 Sequence 3361, Ap
991 25 56.8 259 2 US-09-252-991A-26881 Sequence 26881, A
992 25 56.8 269 2 US-09-328-352-7904 Sequence 7904, Ap
993 25 56.8 272 2 US-09-252-991A-17567 Sequence 17567, A
994 25 56.8 277 2 US-09-252-991A-17615 Sequence 17615, A
995 25 56.8 279 2 US-09-583-110-3801 Sequence 3801, Ap
996 25 56.8 279 2 US-09-270-767-46472 Sequence 46472, A
997 25 56.8 282 2 US-09-252-991A-28046 Sequence 28046, A
998 25 56.8 283 2 US-09-458-779-2 Sequence 2, Appl
999 25 56.8 292 2 US-09-540-236-3287 Sequence 3287, Ap
1000 25 56.8 295 2 US-09-328-352-5181 Sequence 5181, Ap
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ALIGNMENTS

```
RESULT 1
US-10-365-908-6
; Sequence 6, Application US/10365908
; Patent No. 6797491
```

```
; GENERAL INFORMATION:
; APPLICANT: Neeffe, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/10/365,908
; CURRENT FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US/09/891,823
; PRIOR FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-10-365-908-6
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Query Match 100.0%; Score 44; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY 1 TLEDLMGT 9
Db 1 TLEDLMGT 9
```

```
RESULT 2
US-10-365-908-18
; Sequence 18, Application US/10365908
; Patent No. 6797491
; GENERAL INFORMATION:
; APPLICANT: Neeffe, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
```

```
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/10/365,908
; CURRENT FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US/09/891,823
; PRIOR FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-10-365-908-18
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Query Match 100.0%; Score 44; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0068;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY 1 TLEDLMGT 9
Db 2 TLEDLMGT 10
```

```
RESULT 3
US-10-365-908-42
; Sequence 42, Application US/10365908
; Patent No. 6797491
```

```
; GENERAL INFORMATION:
; APPLICANT: Neeffe, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/10/365,908
; CURRENT FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US/09/891,823
; PRIOR FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 42
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-10-365-908-42
```

```
Query Match 100.0%; Score 44; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0068;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 TLEDLMGT 9
Db 1 TLEDLMGT 9
```

```
RESULT 4
US-08-075-541D-49
; Sequence 49, Application US/08075541D
; Patent No. 6183745
; GENERAL INFORMATION:
; APPLICANT: TINDLE, ROBERT
; APPLICANT: FERNANDO, ROBERT
; APPLICANT: FRAZER, IAN
; APPLICANT: SUBUNIT PAPILLOMA VIRUS VACCINE AND
; TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
; NUMBER OF SEQUENCES: 56
; CORRESPONDENCE ADDRESS:
```



```

; ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
; STREET: 1601 MARKET STREET, 36TH FLOOR
; CITY: PHILADELPHIA
; STATE: PENNSYLVANIA
; COUNTRY: USA
; ZIP: 19103-2398
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/075,541D
; FILING DATE: 10-JUN-1993
; CLASSIFICATION: 424
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: AU pk 3876
; FILING DATE: 12-DEC-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: pct/au91/00575
; FILING DATE: 12-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: NADEL, ALAN S
; REGISTRATION NUMBER: 27,363
; REFERENCE/DOCKET NUMBER: 8795-4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-567-2020
; TELEFAX: 215-567-2991
; INFORMATION FOR SEQ ID NO: 49:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-075-541D-49

Query Match          100.0%; Score 44; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDDLNGT 9
Db 9 TLEDDLNGT 17

RESULT 5
US-08-075-541D-50
; Sequence 50, Application US/08075541D
; Patent No. 6183745
; GENERAL INFORMATION:
; APPLICANT: TINDLE, ROBERT
; APPLICANT: FERNANDO, GERMAIN
; APPLICANT: FRAZER, IAN
; TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
; TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
; NUMBER OF SEQUENCES: 56
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
; STREET: 1601 MARKET STREET, 36TH FLOOR
; CITY: PHILADELPHIA
; STATE: PENNSYLVANIA
; COUNTRY: USA
; ZIP: 19103-2398
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/075,541D
; FILING DATE: 10-JUN-1993
; CLASSIFICATION: 424
```

```

; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: AU pk 3876
; FILING DATE: 12-DEC-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: pct/au91/00575
; FILING DATE: 12-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: NADEL, ALAN S
; REGISTRATION NUMBER: 27,363
; REFERENCE/DOCKET NUMBER: 8795-4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-567-2020
; TELEFAX: 215-567-2991
; INFORMATION FOR SEQ ID NO: 50:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-075-541D-50

Query Match          100.0%; Score 44; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDDLNGT 9
Db 4 TLEDDLNGT 12

RESULT 6
US-09-980-177A-75
; Sequence 75, Application US/09980177A
; Patent No. 6838084
; GENERAL INFORMATION:
; APPLICANT: Jochims, Ingrid
; APPLICANT: Nieland, John
; TITLE OF INVENTION: Cytotoxic T-Cell Epitopes of the
; TITLE OF INVENTION: Papilloma Virus L1-Protein and Use Thereof in Diagnosis and
; TITLE OF INVENTION: Therapy
; FILE REFERENCE: 50125/036001
; CURRENT APPLICATION NUMBER: US/09/980,177A
; CURRENT FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: PCT/EP00/05006
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: DE 1992519.1
; PRIOR FILING DATE: 1999-06-01
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 75
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
; US-09-980-177A-75

Query Match          100.0%; Score 44; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDDLNGT 9
Db 12 TLEDDLNGT 20

RESULT 7
US-08-934-915-50
; Sequence 50, Application US/08934915
; Patent No. 5932412
; GENERAL INFORMATION:
; APPLICANT: DILLNER, JOAKIM
; APPLICANT: DILLNER, LENA
; APPLICANT: CHENG, HWEE-MING
```

```

; TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
; TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
; TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
; TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
; TITLE OF INVENTION: DIAGNOSTIC PURPOSES
; NUMBER OF SEQUENCES: 193
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MASON & ASSOCIATES, P.A.
; STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
; CITY: CLEARWATER
; STATE: FLORIDA
; COUNTRY: U.S.A.
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Windows 3.0
; SOFTWARE: Microsoft Word 6.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/934,915
; FILING DATE: 22-SEP-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/949,836
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: LOUISE A. FOUTCH
; REGISTRATION NUMBER: 37,133
; REFERENCE/DOCKET NUMBER: 1946.6
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 813-538-3800
; TELEFAX: 813-538-3820
; TELEX:
; INFORMATION FOR SEQ ID NO: 50:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-934-915-50

Query Match          100.0%; Score 44; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.016;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TLEDLMGT 9
Db      1 TLEDLMGT 9

RESULT 8
US-09-980-177A-76
; Sequence 76, Application US/09980177A
; Patent No. 6838084
; GENERAL INFORMATION:
; APPLICANT: Jochmus, Ingrid
; TITLE OF INVENTION: Cytotoxic T-Cell Epitopes of the
; TITLE OF INVENTION: Papilloma Virus L1-Protein and Use Thereof in Diagnosis and
; TITLE OF INVENTION: Therapy
; FILE REFERENCE: 50125/036001
; CURRENT APPLICATION NUMBER: US/09/980,177A
; CURRENT FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: PCT/EP00/05006
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: DE 19925199.1
; PRIOR FILING DATE: 1999-06-01
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 76
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
; US-09-980-177A-76
```

```

Query Match          100.0%; Score 44; DB 2; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.016;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TLEDLMGT 9
Db      1 TLEDLMGT 9

RESULT 9
US-08-075-541D-40
; Sequence 40, Application US/08075541D
; Patent No. 6183745
; GENERAL INFORMATION:
; APPLICANT: TINDLE, ROBERT
; APPLICANT: FERNANDO, GERMAIN
; APPLICANT: FRAZER, IAN
; TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
; TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
; NUMBER OF SEQUENCES: 56
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
; STREET: 1601 MARKET STREET, 36TH FLOOR
; CITY: PHILADELPHIA
; STATE: PENNSYLVANIA
; COUNTRY: USA
; ZIP: 19103-2398
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/075,541D
; FILING DATE: 10-JUN-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: AU p/k 3876
; FILING DATE: 12-DEC-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: Pct/au91/00575
; FILING DATE: 12-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: NADEL, ALAN S
; REGISTRATION NUMBER: 27,363
; REFERENCE/DOCKET NUMBER: 8795-4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-567-2020
; TELEFAX: 215-567-2991
; INFORMATION FOR SEQ ID NO: 40:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 26 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-075-541D-40

Query Match          100.0%; Score 44; DB 2; Length 26;
Best Local Similarity 100.0%; Pred. No. 0.021;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TLEDLMGT 9
Db      7 TLEDLMGT 15

RESULT 10
US-09-486-394-5
; Sequence 5, Application US/09486394
; Patent No. 6478749
; GENERAL INFORMATION:
```

APPLICANT: Hopfl, Reinhard
TITLE OF INVENTION: Diagnostic Kit for Skin Tests, and Method
FILE REFERENCE: 032929-001
CURRENT APPLICATION NUMBER: US/09/486,394
CURRENT FILING DATE: 2000-06-20
PRIOR APPLICATION NUMBER: PCT/EP98/04773
PRIOR FILING DATE: 1998-07-30
PRIOR APPLICATION NUMBER: DE 197 37 409.3
PRIOR FILING DATE: 1997-08-27
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn version 3.1
SEQ ID NO 5
LENGTH: 28
TYPE: PRT
ORGANISM: Human papillomavirus type 16
FEATURE:
NAME/KEY: PEPTIDE
LOCATION: (1)..(28)
OTHER INFORMATION: E7 peptide.
US-09-486-394-5

Query Match 100.0%; Score 44; DB 2; Length 28;
Best Local Similarity 100.0%; Pred. No. 0.023;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLEDLMGT 9
Db 8 TLEDLMGT 16

RESULT 11
US-08-934-915-53
Sequence 53, Application US/08934915
Patent No. 5932412
GENERAL INFORMATION:
APPLICANT: DILLNER, JOAKIM
APPLICANT: DILLNER, LENA
APPLICANT: CHENG, HWEI-MING
TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
TITLE OF INVENTION: USEFUL IN IMMUNOSSAY FOR
NUMBER OF SEQUENCES: 193
CORRESPONDENCE ADDRESSES:
ADDRESSEE: MASON & ASSOCIATES, P.A.
STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
CITY: CLEARWATER
STATE: FLORIDA
COUNTRY: U.S.A.
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 3.0
SOFTWARE: Microsoft Word 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/934,915
FILING DATE: 22-SEP-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/949,836
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: LOUISE A. Foulch 37,133
REGISTRATION NUMBER: 1946.6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 813-538-3800
TELEFAX: 813-538-3820
TELEX:
INFORMATION FOR SEQ ID NO: 53:
SEQUENCE CHARACTERISTICS:
LENGTH: 30 amino acids

TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-934-915-53

Query Match 100.0%; Score 44; DB 1; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLEDLMGT 9
Db 21 TLEDLMGT 29

RESULT 12
US-08-934-915-54
Sequence 54, Application US/08934915
Patent No. 5932412
GENERAL INFORMATION:
APPLICANT: DILLNER, JOAKIM
APPLICANT: DILLNER, LENA
APPLICANT: CHENG, HWEI-MING
TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
TITLE OF INVENTION: USEFUL IN IMMUNOSSAY FOR
NUMBER OF SEQUENCES: 193
CORRESPONDENCE ADDRESSES:
ADDRESSEE: MASON & ASSOCIATES, P.A.
STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
CITY: CLEARWATER
STATE: FLORIDA
COUNTRY: U.S.A.
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 3.0
SOFTWARE: Microsoft Word 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/934,915
FILING DATE: 22-SEP-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/949,836
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: LOUISE A. Foulch 37,133
REGISTRATION NUMBER: 1946.6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 813-538-3800
TELEFAX: 813-538-3820
TELEX:
INFORMATION FOR SEQ ID NO: 54:
SEQUENCE CHARACTERISTICS:
LENGTH: 30 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-934-915-54

Query Match 100.0%; Score 44; DB 1; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLEDLMGT 9
Db 10 TLEDLMGT 18

RESULT 13
US-09-486-394-4

```
; Sequence 4, Application US/09486394
; Patent No. 6478749
; GENERAL INFORMATION:
; APPLICANT: Hopfl, Reinhard
; TITLE OF INVENTION: Diagnostic Kit for Skin Tests, and Method
; FILE REFERENCE: 032929-001
; CURRENT APPLICATION NUMBER: US/09/486,394
; PRIORITY FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/04773
; PRIOR FILING DATE: 1998-07-30
; PRIOR APPLICATION NUMBER: DE 197 37 409.3
; PRIOR FILING DATE: 1997-08-27
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 4
; LENGTH: 30
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(30)
; OTHER INFORMATION: E7 peptide.
US-09-486-394-4

Query Match      100.0%; Score 44; DB 2; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 TLEDLMGT 9
Db      18 TLEDLMGT 26

RESULT 14
US-08-406-248-6
; Sequence 6, Application US/08406248
; Patent No. 5736318
; GENERAL INFORMATION:
; APPLICANT: Munger, Karl
; APPLICANT: Jones, D. Leanne
; TITLE OF INVENTION: METHOD AND KIT FOR EVALUATING
; TITLE OF INVENTION: TRANSFORMED CELLS
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Ann-Louise Kerner, Ph.D., Lappin & Kusmer
; STREET: 200 State Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/406,248
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: McDaniel, Patricia A.
; REGISTRATION NUMBER: 33,194
; REFERENCE/DOCKET NUMBER: HAZ-011
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-330-1300
; TELEFAX: 617-330-1311
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-406-248-6
```

```
Query Match      100.0%; Score 44; DB 1; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.096;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 TLEDLMGT 9
Db      78 TLEDLMGT 86

RESULT 15
US-08-075-541D-42
; Sequence 42, Application US/08075541D
; Patent No. 6183745
; GENERAL INFORMATION:
; APPLICANT: TINDLE, ROBERT
; APPLICANT: FERNANDO, GERMAIN
; APPLICANT: FRAZER, IAN
; TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
; TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
; NUMBER OF SEQUENCES: 56
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
; STREET: 1601 MARKET STREET, 36TH FLOOR
; CITY: PHILADELPHIA
; STATE: PENNSYLVANIA
; COUNTRY: USA
; ZIP: 19103-2398
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/075,541D
; FILING DATE: 10-JUN-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: AU pk 3876
; FILING DATE: 12-DEC-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: pcc/au91/00575
; FILING DATE: 12-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: NADEL, ALAN S
; REGISTRATION NUMBER: 27,363
; REFERENCE/DOCKET NUMBER: 8795-4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-567-2020
; TELEFAX: 215-567-2991
; INFORMATION FOR SEQ ID NO: 42:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-075-541D-42

Query Match      100.0%; Score 44; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.096;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 TLEDLMGT 9
Db      78 TLEDLMGT 86

RESULT 16
US-09-382-616A-1
; Sequence 1, Application US/09382616A
; Patent No. 6200746
; GENERAL INFORMATION:
```

```

; APPLICANT: Fisher, Christopher
; APPLICANT: He, Wanxia
; TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
; FILE REFERENCE: 28341/6216
; CURRENT APPLICATION NUMBER: US/09/382,616A
; CURRENT FILING DATE: 1999-08-25
; PRIOR APPLICATION NUMBER: 09/382,616
; PRIOR FILING DATE: 1999-08-25
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Papillomavirus sylvilagi
US-09-382-616A-1

Query Match      100.0%; Score 44; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.096;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLEDLMGT 9
Db 78 TLEDLMGT 86

RESULT 17
US-08-944-368A-4
; Sequence 4, Application US/08944368A
; Patent No. 6228368
; GENERAL INFORMATION:
; APPLICANT: Giesman, et al.
; TITLE OF INVENTION: Papilloma Virus Capsomere Vaccine
; TITLE OF INVENTION: Formulations and Methods of Use
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
; ADDRESSEE: Borun
; STREET: 233 South Wacker Drive, 6300 Sears Tower
; City: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/944,368A
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Williams Jr., Joseph A.
; REGISTRATION NUMBER: 38,659
; REFERENCE/DOCKET NUMBER: 27013/34028
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-474-6300
; TELEFAX: 312-474-0448
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-944-368A-4

Query Match      100.0%; Score 44; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.096;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLEDLMGT 9
Db 78 TLEDLMGT 86
```

```

RESULT 18
US-09-820-764-4
; Sequence 4, Application US/09820764
; Patent No. 6352696
; GENERAL INFORMATION:
; APPLICANT: BURGER, Alexander
; APPLICANT: HALPER, Michael
; TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
; FORMULATIONS AND METHODS OF USE
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: FOLLEY & LARDNER
; STREET: 3000 K Street, N.W.
; City: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/820,764
; FILING DATE: 30-Mar-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 09/026,896
; FILING DATE: 20-FEB-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Sandercock, Colin G.
; REGISTRATION NUMBER: 31,298
; REFERENCE/DOCKET NUMBER: 37067/102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 672-5300
; TELEFAX: (202) 672-5399
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-820-764-4

Query Match      100.0%; Score 44; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.096;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLEDLMGT 9
Db 78 TLEDLMGT 86

RESULT 19
US-09-613-303-8
; Sequence 8, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/09/613,303
; CURRENT FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
```

LENGTH: 98
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: fusion sequence
US-09-613-303-8

Query Match 100.0%; Score 44; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.096;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLMT 9
Db 78 TLEDLMT 86

RESULT 20
US-09-566-420-19
Sequence 19, Application US/09566420
Patent No. 6500641
GENERAL INFORMATION:
APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
TITLE OF INVENTION: IMMUNE RESPONSE
FILE REFERENCE: TBA
CURRENT APPLICATION NUMBER: US/09/566,420
CURRENT FILING DATE: 2000-05-05
PRIOR APPLICATION NUMBER: 60/132,752
PRIOR FILING DATE: 1999-05-06
PRIOR APPLICATION NUMBER: 60/132,750
PRIOR FILING DATE: 1999-05-06
NUMBER OF SEQ ID NOS: 19
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 19
LENGTH: 98
TYPE: PRT
ORGANISM: Human papillomavirus type E7
US-09-566-420-19

Query Match 100.0%; Score 44; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.096;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLMT 9
Db 78 TLEDLMT 86

RESULT 21
US-09-986-118A-4
Sequence 4, Application US/09986118A
Patent No. 6562351
GENERAL INFORMATION:
APPLICANT: BURGER, Alexander
TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
FORMULATIONS AND METHODS OF USE
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSER: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/986,118A
FILING DATE: 07-No. 6562351-2001

CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/026,896
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Sandercock, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-986-118A-4

Query Match 100.0%; Score 44; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.096;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLMT 9
Db 78 TLEDLMT 86

RESULT 22
US-09-728-466-1
Sequence 1, Application US/09728466
Patent No. 6641994
GENERAL INFORMATION:
APPLICANT: Fisher, Christopher
TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
FILE REFERENCE: 28341/6216
CURRENT APPLICATION NUMBER: US/09/728,466
CURRENT FILING DATE: 2000-12-01
PRIOR APPLICATION NUMBER: 09/382,616
PRIOR FILING DATE: 1999-08-25
NUMBER OF SEQ ID NOS: 43
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 1
LENGTH: 98
TYPE: PRT
ORGANISM: Papillomavirus sylvilagi
US-09-728-466-1

Query Match 100.0%; Score 44; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.096;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLMT 9
Db 78 TLEDLMT 86

RESULT 23
US-09-824-017-4
Sequence 4, Application US/09824017
Patent No. 6649167
GENERAL INFORMATION:
APPLICANT: BURGER, Alexander
TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
FORMULATIONS AND METHODS OF USE
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSER: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington

STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/824,017
FILING DATE: 03-Apr-2001
CLASSIFICATION: 424
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: 09/026,896
FILING DATE: 1998-02-20
ATTORNEY/AGENT INFORMATION:
NAME: Sandercock, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-824-017-4

Query Match 100.0%; Score 44; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.096;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLMGT 9
DB 78 TLEDLMGT 86

RESULT 24
US-10-267-311-8
Sequence 8, Application US/10267311
Patent No. 6657055
GENERAL INFORMATION:
APPLICANT: Siegel, Marvin
APPLICANT: Chu, N. Randall
APPLICANT: Mizen, Lee A.
TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
FILE REFERENCE: 12071/002001
CURRENT APPLICATION NUMBER: US/10/267,311
CURRENT FILING DATE: 2002-10-09
PRIORITY APPLICATION NUMBER: US/09/613,303
PRIORITY FILING DATE: 2000-07-10
PRIORITY APPLICATION NUMBER: US 60/143,757
PRIORITY FILING DATE: 1999-07-08
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 8
LENGTH: 98
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURES:
OTHER INFORMATION: fusion sequence
US-10-267-311-8

Query Match 100.0%; Score 44; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.096;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLMGT 9
DB 78 TLEDLMGT 86

RESULT 25
US-10-201-764-19
Sequence 19, Application US/10201764
Patent No. 6716623
GENERAL INFORMATION:
APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
FILE OF INVENTION: IMMUNE RESPONSE
FILE REFERENCE: TBA
CURRENT APPLICATION NUMBER: US/10/201,764
CURRENT FILING DATE: 2002-07-22
PRIORITY APPLICATION NUMBER: US/09/566,420
PRIORITY FILING DATE: 2000-05-05
PRIORITY APPLICATION NUMBER: 60/132,752
PRIORITY FILING DATE: 1999-05-06
PRIORITY APPLICATION NUMBER: 60/132,750
PRIORITY FILING DATE: 1999-05-06
NUMBER OF SEQ ID NOS: 19
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 19
LENGTH: 98
TYPE: PRT
ORGANISM: Human papillomavirus type E7
US-10-201-764-19

Query Match 100.0%; Score 44; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.096;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLMGT 9
DB 78 TLEDLMGT 86

RESULT 26
US-09-637-746-3
Sequence 3, Application US/09637746
Patent No. 6727079
GENERAL INFORMATION:
APPLICANT: Thorgeirsson, Snorri S.
APPLICANT: Mollach, Joseph T.
APPLICANT: Zhang, Minghuang
TITLE OF INVENTION: CDNA ENCODING A GENE BOG (BET OVER-EXPRESSED GENE) AND ITS PROTE
FILE REFERENCE: 11613.29USM1
CURRENT APPLICATION NUMBER: US/09/637,746
CURRENT FILING DATE: 2000-08-11
PRIORITY APPLICATION NUMBER: PCT/US99/04142
PRIORITY FILING DATE: 1999-02-25
PRIORITY APPLICATION NUMBER: US 60/079,567
PRIORITY FILING DATE: 1998-03-27
PRIORITY APPLICATION NUMBER: US 60/075,922
PRIORITY FILING DATE: 1998-02-25
NUMBER OF SEQ ID NOS: 15
SOFTWARE: Patentin version 3.1
SEQ ID NO 3
LENGTH: 98
TYPE: PRT
ORGANISM: Human papillomavirus
US-09-637-746-3

Query Match 100.0%; Score 44; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.096;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLMGT 9
DB 78 TLEDLMGT 86

RESULT 27

```
US-09-501-097A-7
; Sequence 7, Application US/09501097A
; Patent No. 6734173
; GENERAL INFORMATION:
; APPLICANT: Tzyy-Chou Wu
; APPLICANT: Chien-Fu Hung
; TITLE OF INVENTION: IMPROVED HSP DNA VACCINES
; FILE REFERENCE: 2240-169349
; CURRENT APPLICATION NUMBER: US/09/501,097A
; CURRENT FILING DATE: 2000-02-09
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 98
; TYPE: PRT
; ORGANISM: human papillomavirus
US-09-501-097A-7
```

```
Query Match          100.0%; Score 44; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.096;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 TLEDLMGT 9
        |||||
Db      78 TLEDLMGT 86
```

```
RESULT 28
US-09-980-523A-12
; Sequence 12, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCES
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE B6 AND E7
; TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: WO/01/00100
; CURRENT APPLICATION NUMBER: US/09/980,523A
; CURRENT FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: PCT/FR00/01513
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: FR 99/07012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-09-980-523A-12
```

```
Query Match          100.0%; Score 44; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.096;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 TLEDLMGT 9
        |||||
Db      78 TLEDLMGT 86
```

```
RESULT 29
US-09-613-303-12
; Sequence 12, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
```

```
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/09/613,303
; CURRENT FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 121
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-09-613-303-12
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```
Query Match          100.0%; Score 44; DB 2; Length 121;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 TLEDLMGT 9
        |||||
Db     101 TLEDLMGT 109
```

```
RESULT 30
US-10-267-311-12
; Sequence 12, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/267,311
; CURRENT FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 121
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-267-311-12
```

```
Query Match          100.0%; Score 44; DB 2; Length 121;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 TLEDLMGT 9
        |||||
Db     101 TLEDLMGT 109
```

```
RESULT 31
US-08-860-165-14
; Sequence 14, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
```


EARLIER FILING DATE: 1995-12-20
EARLIER APPLICATION NUMBER: AU PN0157
EARLIER FILING DATE: 1994-12-20
NUMBER OF SEQ ID NOS: 15
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 14
LENGTH: 172
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-14

Query Match 100.0%; Score 44; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.18;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TLEDLMGT 9
Db 46 TLEDLMGT 54

RESULT 32
US-09-359-382-14
Sequence 14, Application US/09359382
Patent No. 6306397
GENERAL INFORMATION:
APPLICANT: EDWARDS, Stirling John
APPLICANT: COX, John Cooper
APPLICANT: WEBB, Elizabeth Ann
APPLICANT: FRAZER, Ian
TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
FILE REFERENCE: 017227/0148
CURRENT APPLICATION NUMBER: US/09/359.382
CURRENT FILING DATE: 1999-07-23
EARLIER APPLICATION NUMBER: US 08/860.165
EARLIER FILING DATE: 1997-09-22
EARLIER APPLICATION NUMBER: PCT/AU95/00868
EARLIER FILING DATE: 1995-12-20
EARLIER APPLICATION NUMBER: AU PN0157/94
EARLIER FILING DATE: 1994-12-20
NUMBER OF SEQ ID NOS: 27
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 14
LENGTH: 172
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-09-359-382-14

Query Match 100.0%; Score 44; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.18;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TLEDLMGT 9
Db 46 TLEDLMGT 54

RESULT 33
US-09-462-993-2
Sequence 2, Application US/09462993
Patent No. 6884786
GENERAL INFORMATION:
APPLICANT: KIENY, Marie-Paule
APPLICANT: BALLOU, Jean-Marc
APPLICANT: BIZOUARNE, Nadine
TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
TITLE OF INVENTION: POLYPEPTIDE WITH MODIFIED CELL LOCATION
FILE REFERENCE: 017753-122
CURRENT APPLICATION NUMBER: US/09/462.993
CURRENT FILING DATE: 2000-04-17
PRIOR APPLICATION NUMBER: PCT/FR98/01576
PRIOR FILING DATE: 1998-07-17

PRIOR APPLICATION NUMBER: FR 97/09152
PRIOR FILING DATE: 1997-07-18
NUMBER OF SEQ ID NOS: 23
SOFTWARE: PatentIn Ver. 2.2
SEQ ID NO 2
LENGTH: 185
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Derived from human papillomavirus, strain
OTHER INFORMATION: HPV-16, E7 fusion signals of the rabies
OTHER INFORMATION: glycoprotein, clone E7*TM.
US-09-462-993-2

Query Match 100.0%; Score 44; DB 2; Length 185;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TLEDLMGT 9
Db 97 TLEDLMGT 105

RESULT 34
US-09-613-303-35
Sequence 35, Application US/09613303
Patent No. 6495347
GENERAL INFORMATION:
APPLICANT: Siegel, Marvin
APPLICANT: Chu, N. Randall
APPLICANT: Mizzen, Lee A.
TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
FILE REFERENCE: 12071/002001
CURRENT APPLICATION NUMBER: US/09/613.303
CURRENT FILING DATE: 2000-07-10
PRIOR APPLICATION NUMBER: US 60/143,757
PRIOR FILING DATE: 1999-07-08
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 35
LENGTH: 198
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: fusion sequence
US-09-613-303-35

Query Match 100.0%; Score 44; DB 2; Length 198;
Best Local Similarity 100.0%; Pred. No. 0.22;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TLEDLMGT 9
Db 178 TLEDLMGT 186

RESULT 35
US-10-267-311-35
Sequence 35, Application US/10267311
Patent No. 6657055
GENERAL INFORMATION:
APPLICANT: Siegel, Marvin
APPLICANT: Chu, N. Randall
APPLICANT: Mizzen, Lee A.
TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
FILE REFERENCE: 12071/002001
CURRENT APPLICATION NUMBER: US/10/267.311
CURRENT FILING DATE: 2002-10-09
PRIOR APPLICATION NUMBER: US/09/613.303
PRIOR FILING DATE: 2000-07-10
PRIOR APPLICATION NUMBER: US 60/143,757
PRIOR FILING DATE: 1999-07-08
NUMBER OF SEQ ID NOS: 55

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; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 35
; LENGTH: 198
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-267-311-35

Query Match          100.0%; Score 44; DB 2; Length 198;
Best Local Similarity 100.0%; Pred. No. 0.22;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TLEDLMGT 9
        |||||
Db      178 TLEDLMGT 186

RESULT 36
US-09-485-885-1
; Sequence 1, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 220
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-1

Query Match          100.0%; Score 44; DB 2; Length 220;
Best Local Similarity 100.0%; Pred. No. 0.25;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TLEDLMGT 9
        |||||
Db      191 TLEDLMGT 199

RESULT 37
US-09-485-885-8
; Sequence 8, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
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; SEQ ID NO 8
; LENGTH: 220
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-8

Query Match          100.0%; Score 44; DB 2; Length 220;
Best Local Similarity 100.0%; Pred. No. 0.25;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TLEDLMGT 9
        |||||
Db      191 TLEDLMGT 199

RESULT 38
US-09-485-885-12
; Sequence 12, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 12
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-12

Query Match          100.0%; Score 44; DB 2; Length 239;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TLEDLMGT 9
        |||||
Db      210 TLEDLMGT 218

RESULT 39
US-08-459-818-20
; Sequence 20, Application US/08459818
; Patent No. 5851795
; GENERAL INFORMATION:
; APPLICANT: Linsley, Peter S.
; APPLICANT: Ledbetter, Jeffrey A.
; APPLICANT: Brady, William K.
; APPLICANT: Bradley, William
; TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant & Gould
; STREET: 11150 Santa Monica Blvd., Suite 400
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: FastSeq 2.0
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TOPOLGY: linear
MOLECULE TYPE: protein
US-08-889-666-20

Query Match 100.0%; Score 44; DB 1; Length 253;
Best Local Similarity 100.0%; Pred. No. 0.29;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLNGT 9
DB 233 TLEDLNGT 241

RESULT 40
US-08-889-666-20
Sequence 20, Application US/08889666
Patent No. 5885579
GENERAL INFORMATION:
APPLICANT: Linsley, Peter S.
APPLICANT: Ledbetter, Jeffrey A.
APPLICANT: Damle, Nitin K.
APPLICANT: Brady, William
APPLICANT: Kiener, Peter A.
TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merchant & Gould
STREET: 1150 Santa Monica Blvd., Suite 400
CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90025
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/889,666
FILING DATE: 08-JUL-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/375390
FILING DATE: 18-JAN-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Adriano, Sarah B.
REGISTRATION NUMBER: 34,470
REFERENCE/DOCKET NUMBER: 30436-35US01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 310-445-1140
TELEFAX: 310-445-9031
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 253 amino acids
TYPE: amino acid
STRANDEDNESS:

TOPOLGY: linear
MOLECULE TYPE: protein
US-08-889-666-20

Query Match 100.0%; Score 44; DB 1; Length 253;
Best Local Similarity 100.0%; Pred. No. 0.29;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLNGT 9
DB 233 TLEDLNGT 241

RESULT 41
US-08-465-078-20
Sequence 20, Application US/08465078
Patent No. 5885796
GENERAL INFORMATION:
APPLICANT: Linsley, Peter S.
APPLICANT: Ledbetter, Jeffrey A.
APPLICANT: Damle, Nitin K.
APPLICANT: Brady, William
APPLICANT: Kiener, Peter A.
TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merchant & Gould
STREET: 1150 Santa Monica Blvd., Suite 400
CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90025
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/465,078
FILING DATE: 05-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/375390
FILING DATE: 18-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Adriano, Sarah B.
REGISTRATION NUMBER: 34,470
REFERENCE/DOCKET NUMBER: 30436-35US01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 310-445-1140
TELEFAX: 310-445-9031
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 253 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLGY: linear
MOLECULE TYPE: protein
US-08-465-078-20

Query Match 100.0%; Score 44; DB 1; Length 253;
Best Local Similarity 100.0%; Pred. No. 0.29;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLNGT 9
DB 233 TLEDLNGT 241

RESULT 42
US-08-725-776-20
Sequence 20, Application US/08725776
Patent No. 5968510

GENERAL INFORMATION:
APPLICANT: Linsley, Peter S.
APPLICANT: Ledbetter, Jeffrey A.
APPLICANT: Damle, Nitin K.
APPLICANT: Brady, William
APPLICANT: Kiener, Peter A.
TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merchant & Gould
STREET: 11150 Santa Monica Blvd., Suite 400
CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90025
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/725,776
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/375390
FILING DATE: 18-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Adriano, Sarah B.
REGISTRATION NUMBER: 34,470
REFERENCE/DOCKET NUMBER: 30436-35US01
TELEPHONE: 310-445-1140
TELEFAX: 310-445-9031
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 253 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-725-776-20
Query Match 100.0%; Score 44; DB 1; Length 253;
Best Local Similarity 100.0%; Pred. No. 0.29;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TLEDLMGT 9
Db 233 TLEDLMGT 241
RESULT 43
US-08-488-062-20
Sequence 20, Application US/08488062
Patent No. 5977318
GENERAL INFORMATION:
APPLICANT: Linsley, Peter S.
APPLICANT: Ledbetter, Jeffrey A.
APPLICANT: Damle, Nitin K.
APPLICANT: Kiener, Peter A.
TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merchant & Gould
STREET: 11150 Santa Monica Blvd., Suite 400
CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90025
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/488,062
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/375390
FILING DATE: 18-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Adriano, Sarah B.
REGISTRATION NUMBER: 34,470
REFERENCE/DOCKET NUMBER: 30436-35US01
TELEPHONE: 310-445-1140
TELEFAX: 310-445-9031
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 253 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-488-062-20
Query Match 100.0%; Score 44; DB 1; Length 253;
Best Local Similarity 100.0%; Pred. No. 0.29;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TLEDLMGT 9
Db 233 TLEDLMGT 241
RESULT 44
US-08-117-083-9
Sequence 9, Application US/08117083
Patent No. 5719054
GENERAL INFORMATION:
APPLICANT: Bourasnell, Michael E.
APPLICANT: Inglis, Stephen C.
APPLICANT: Munro, Alan J.
TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human
NUMBER OF SEQUENCES: 70
CORRESPONDENCE ADDRESS:
ADDRESSEE: Walter H. Dreger
STREET: 4 Embarcadero Center, Suite 3400
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/117,083
FILING DATE: 10-SEP-1993
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Dreger, Walter H.
REGISTRATION NUMBER: 24,190
REFERENCE/DOCKET NUMBER: A-58783
TELEPHONE: 415-398-3249
TELEFAX: 415-398-3249
TELEX: 910 277299
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 263 amino acids

TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
NAME/KEY: Protein
LOCATION: 1..263
OTHER INFORMATION: /note="Xaa refers to stop codon in
OTHER INFORMATION: the open reading frame."
US-08-117-083-9

Query Match 100.0%; Score 44; DB 1; Length 263;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLLMGT 9
|||||
Db 238 TLEDLLMGT 247

RESULT 45
US-08-860-165-10
Sequence 10, Application US/08860165A
Patent No. 6004557
GENERAL INFORMATION:
APPLICANT: EDWARDS, Stirling John
APPLICANT: COX, John Cooper
APPLICANT: WEBB, Elizabeth Ann
TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
FILE REFERENCE: 17227/130
CURRENT APPLICATION NUMBER: US/08/860,165A
CURRENT FILING DATE: 1997-09-22
EARLIER APPLICATION NUMBER: ECT/AU95/00868
EARLIER FILING DATE: 1995-12-20
EARLIER APPLICATION NUMBER: AU PNO157
EARLIER FILING DATE: 1994-12-20
NUMBER OF SEQ ID NOS: 15
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 10
LENGTH: 266
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

Query Match 100.0%; Score 44; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.31;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLLMGT 9
|||||
Db 238 TLEDLLMGT 246

RESULT 46
US-09-359-382-10
Sequence 10, Application US/09359382
Patent No. 6306397
GENERAL INFORMATION:
APPLICANT: EDWARDS, Stirling John
APPLICANT: COX, John Cooper
APPLICANT: WEBB, Elizabeth Ann
APPLICANT: FRAZER, Ian
TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
FILE REFERENCE: 017227/0148
CURRENT APPLICATION NUMBER: US/09/359,382
CURRENT FILING DATE: 1999-07-23
EARLIER APPLICATION NUMBER: US 08/860,165
EARLIER FILING DATE: 1997-09-22
EARLIER APPLICATION NUMBER: PCT/AU95/00868
EARLIER FILING DATE: 1995-12-20

EARLIER APPLICATION NUMBER: AU PNO157/94
EARLIER FILING DATE: 1994-12-20
NUMBER OF SEQ ID NOS: 27
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 10
LENGTH: 266
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-09-359-382-10

Query Match 100.0%; Score 44; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.31;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLLMGT 9
|||||
Db 238 TLEDLLMGT 246

RESULT 47
US-09-367-309A-1
Sequence 1, Application US/09367309A
Patent No. 6428807
GENERAL INFORMATION:
APPLICANT: MACPARLAN, RODERICK I.
TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
FILE REFERENCE: 017227/0149
CURRENT APPLICATION NUMBER: US/09/367,309A
CURRENT FILING DATE: 1999-08-11
PRIOR APPLICATION NUMBER: PCT/AU96/00080
PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: AU PO 5178
PRIOR FILING DATE: 1997-02-19
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 266
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 44; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.31;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLLMGT 9
|||||
Db 238 TLEDLLMGT 246

RESULT 48
US-09-501-097A-25
Sequence 25, Application US/09501097A
Patent No. 6734173
GENERAL INFORMATION:
APPLICANT: Tzzy-Chou Wu
APPLICANT: Chien-Fu Hung
TITLE OF INVENTION: IMPROVED HSP DNA VACCINES
FILE REFERENCE: 2240-169349
CURRENT APPLICATION NUMBER: US/09/501,097A
CURRENT FILING DATE: 2000-02-09
NUMBER OF SEQ ID NOS: 25
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 25
LENGTH: 287
TYPE: PRT
ORGANISM: Human papillomavirus/Mouse
US-09-501-097A-25

Query Match 100.0%; Score 44; DB 2; Length 287;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Search completed: May 5, 2006, 07:09:47
Job time : 33.75 secs

QY 1 TLBDLMGT 9
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Db 267 TLBDLMGT 275

RESULT 49
US-09-613-303-33
; Sequence 33, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A THI-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 33
; LENGTH: 295
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-09-613-303-33

Query Match 100.0%; Score 44; DB 2; Length 295;
Best Local Similarity 100.0%; Pred. No. 0.34;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLBDLMGT 9
|||
Db 275 TLBDLMGT 283

RESULT 50
US-10-267-311-33
; Sequence 33, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A THI-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/267,311
; CURRENT FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 33
; LENGTH: 295
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-267-311-33

Query Match 100.0%; Score 44; DB 2; Length 295;
Best Local Similarity 100.0%; Pred. No. 0.34;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLBDLMGT 9
|||
Db 275 TLBDLMGT 283

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:50:57 ; Search time 57 Seconds
(Without alignments)
65.973 Million cell updates/sec

Title: US-08-170-344-17
Perfect score: 44
Sequence: 1 TLEDLMGR 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Listing first 1000 summaries

Database :

- Published Applications AA Main:*
- 1: /cgn2_6/ptodata/1/pubpaa/us07_PUBCOMB.pep:*
 - 2: /cgn2_6/ptodata/1/pubpaa/us08_PUBCOMB.pep:*
 - 3: /cgn2_6/ptodata/1/pubpaa/us09_PUBCOMB.pep:*
 - 4: /cgn2_6/ptodata/1/pubpaa/us10A_PUBCOMB.pep:*
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 - 6: /cgn2_6/ptodata/1/pubpaa/us11_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	44	100.0	9	3	US-09-891-823-6
2	44	100.0	9	4	US-10-365-908-6
3	44	100.0	9	5	US-10-871-138-6
4	44	100.0	10	3	US-09-891-823-18
5	44	100.0	10	3	US-09-891-823-42
6	44	100.0	10	4	US-10-365-908-18
7	44	100.0	10	4	US-10-365-908-18
8	44	100.0	10	5	US-10-871-138-18
9	44	100.0	10	5	US-10-871-138-42
10	44	100.0	15	4	US-10-648-547-68
11	44	100.0	15	4	US-10-648-547-75
12	44	100.0	15	4	US-10-648-547-78
13	44	100.0	15	4	US-10-648-547-79
14	44	100.0	15	4	US-10-648-547-95
15	44	100.0	15	4	US-10-476-570-50
16	44	100.0	15	4	US-10-476-570-51
17	44	100.0	15	4	US-10-306-541-68
18	44	100.0	15	4	US-10-306-541-75
19	44	100.0	15	4	US-10-306-541-78
20	44	100.0	15	4	US-10-306-541-79
21	44	100.0	20	4	US-10-432-465-50
22	44	100.0	20	4	US-10-432-465-55
23	44	100.0	20	5	US-10-890-526-75
24	44	100.0	20	5	US-10-464-063-15
25	44	100.0	21	4	US-10-432-465-51
26	44	100.0	21	4	US-10-476-570-18
27	44	100.0	21	5	US-10-890-526-76

28	44	100.0	23	4	US-10-476-570-17	Sequence 17, Appl
29	44	100.0	98	3	US-09-728-466-1	Sequence 1, Appl
30	44	100.0	98	3	US-09-820-165-4	Sequence 4, Appl
31	44	100.0	98	3	US-09-824-017-4	Sequence 4, Appl
32	44	100.0	98	3	US-09-868-118A-4	Sequence 4, Appl
33	44	100.0	98	4	US-10-267-311-8	Sequence 8, Appl
34	44	100.0	98	4	US-10-177-390-8	Sequence 8, Appl
35	44	100.0	98	4	US-10-201-764-19	Sequence 19, Appl
36	44	100.0	98	4	US-10-392-113-29	Sequence 29, Appl
37	44	100.0	98	4	US-10-654-129-4	Sequence 4, Appl
38	44	100.0	98	4	US-10-681-810-19	Sequence 19, Appl
39	44	100.0	98	4	US-10-772-988-3	Sequence 3, Appl
40	44	100.0	98	4	US-10-479-541-5	Sequence 5, Appl
41	44	100.0	98	5	US-10-042-526A-4	Sequence 4, Appl
42	44	100.0	98	5	US-10-657-399-1	Sequence 1, Appl
43	44	100.0	98	5	US-10-858-384-12	Sequence 12, Appl
44	44	100.0	98	5	US-10-484-063-26	Sequence 26, Appl
45	44	100.0	98	5	US-10-343-448-5	Sequence 5, Appl
46	44	100.0	98	5	US-10-679-956-8	Sequence 8, Appl
47	44	100.0	98	5	US-10-367-057-17	Sequence 17, Appl
48	44	100.0	98	6	US-11-077-839-5	Sequence 5, Appl
49	44	100.0	99	4	US-10-115-440-7	Sequence 7, Appl
50	44	100.0	111	4	US-10-472-124-4	Sequence 4, Appl
51	44	100.0	121	4	US-10-267-311-12	Sequence 12, Appl
52	44	100.0	121	5	US-10-679-956-12	Sequence 12, Appl
53	44	100.0	185	6	US-11-072-488-2	Sequence 2, Appl
54	44	100.0	198	4	US-10-267-311-35	Sequence 35, Appl
55	44	100.0	198	5	US-10-679-956-35	Sequence 35, Appl
56	44	100.0	220	4	US-10-000-903-1	Sequence 1, Appl
57	44	100.0	220	4	US-10-000-903-8	Sequence 8, Appl
58	44	100.0	220	5	US-10-899-771-1	Sequence 1, Appl
59	44	100.0	220	5	US-10-899-771-8	Sequence 8, Appl
60	44	100.0	239	5	US-10-000-903-12	Sequence 12, Appl
61	44	100.0	239	5	US-10-899-771-12	Sequence 12, Appl
62	44	100.0	266	3	US-09-367-309A-1	Sequence 1, Appl
63	44	100.0	295	4	US-10-115-440-5	Sequence 5, Appl
64	44	100.0	295	4	US-10-267-311-33	Sequence 33, Appl
65	44	100.0	325	5	US-10-679-956-33	Sequence 33, Appl
66	44	100.0	325	5	US-10-267-311-25	Sequence 25, Appl
67	44	100.0	324	5	US-10-679-956-25	Sequence 25, Appl
68	44	100.0	334	4	US-10-472-124-10	Sequence 10, Appl
69	44	100.0	371	4	US-10-000-903-6	Sequence 6, Appl
70	44	100.0	371	5	US-10-899-771-6	Sequence 6, Appl
71	44	100.0	390	4	US-10-000-903-14	Sequence 14, Appl
72	44	100.0	390	5	US-10-899-771-14	Sequence 14, Appl
73	44	100.0	421	4	US-10-267-311-19	Sequence 19, Appl
74	44	100.0	421	4	US-10-267-311-19	Sequence 19, Appl
75	44	100.0	433	5	US-10-679-956-19	Sequence 19, Appl
76	44	100.0	639	4	US-10-267-311-17	Sequence 17, Appl
77	44	100.0	639	5	US-10-679-956-17	Sequence 17, Appl
78	44	100.0	641	4	US-10-267-311-51	Sequence 51, Appl
79	44	100.0	641	5	US-10-679-956-51	Sequence 51, Appl
80	44	100.0	647	4	US-10-267-311-53	Sequence 53, Appl
81	44	100.0	647	5	US-10-679-956-53	Sequence 53, Appl
82	44	100.0	648	4	US-10-267-311-29	Sequence 29, Appl
83	44	100.0	648	5	US-10-679-956-29	Sequence 29, Appl
84	44	100.0	711	4	US-10-267-311-41	Sequence 41, Appl
85	44	100.0	711	5	US-10-679-956-41	Sequence 41, Appl
86	44	100.0	724	4	US-10-267-311-45	Sequence 45, Appl
87	44	100.0	724	5	US-10-679-956-45	Sequence 45, Appl
88	44	100.0	805	4	US-10-367-095-9	Sequence 9, Appl
89	44	100.0	805	4	US-10-368-046-9	Sequence 9, Appl
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91	44	100.0	805	5	US-10-318-337-9	Sequence 9, Appl
92	39	88.6	9	3	US-09-891-823-22	Sequence 22, Appl
93	39	88.6	9	4	US-10-365-908-22	Sequence 22, Appl
94	39	88.6	9	5	US-10-871-138-22	Sequence 22, Appl
95	39	88.6	9	5	US-10-924-377-13	Sequence 13, Appl
96	39	88.6	15	4	US-10-484-547-97	Sequence 97, Appl
97	39	88.6	15	4	US-10-306-541-97	Sequence 97, Appl
98	39	88.6	19	4	US-10-476-570-58	Sequence 58, Appl
99	39	88.6	19	5	US-10-858-384-18	Sequence 18, Appl
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101	35	79.5	9	5	US-10-924-377-14	Sequence 14, App1	174	32	72.7	250	6	US-11-089-368-38	Sequence 38, App1
102	35	79.5	10	3	US-09-891-823-58	Sequence 38, App1	175	32	72.7	254	4	US-10-207-655-288	Sequence 288, App
103	35	79.5	10	4	US-10-365-908-358	Sequence 38, App1	176	32	72.7	254	5	US-10-627-556-64	Sequence 64, App1
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105	35	79.5	15	4	US-10-648-547-84	Sequence 84, App1	178	32	72.7	259	5	US-10-220-335-662	Sequence 662, App
106	35	79.5	15	4	US-10-306-541-84	Sequence 84, App1	179	32	72.7	306	4	US-10-425-114-51732	Sequence 51732, A
107	35	79.5	358	4	US-10-424-599-199794	Sequence 199794,	180	32	72.7	338	4	US-10-072-012-322	Sequence 322, App
108	34	77.3	89	5	US-10-472-928-1752	Sequence 1752, Ap	181	32	72.7	340	5	US-10-047-542-18	Sequence 18, App1
109	34	77.3	107	5	US-10-472-928-3398	Sequence 3398, Ap	182	32	72.7	340	5	US-10-872-932-33	Sequence 33, App1
110	34	77.3	110	5	US-10-617-320-3226	Sequence 3226, Ap	183	32	72.7	340	5	US-10-810-881A-32	Sequence 32, App1
111	34	77.3	129	5	US-10-472-928-944	Sequence 944, App	184	32	72.7	340	5	US-10-981-936-32	Sequence 32, App1
112	34	77.3	132	5	US-10-472-928-1846	Sequence 1846, Ap	185	32	72.7	333	4	US-10-047-542-16	Sequence 16, App1
113	34	77.3	132	5	US-10-472-928-2642	Sequence 2642, Ap	186	32	72.7	333	6	US-11-003-819-55	Sequence 55, App1
114	34	77.3	132	5	US-10-617-320-5761	Sequence 2761, Ap	187	32	72.7	334	5	US-10-872-932A-32	Sequence 32, App1
115	34	77.3	135	5	US-10-617-320-5643	Sequence 2643, Ap	188	32	72.7	334	5	US-10-810-881A-31	Sequence 31, App1
116	34	77.3	167	5	US-10-617-320-2919	Sequence 2919, Ap	189	32	72.7	334	5	US-10-981-936-31	Sequence 31, App1
117	34	77.3	191	5	US-10-617-320-2219	Sequence 3219, Ap	190	32	72.7	334	4	US-10-072-012-797	Sequence 797, App
118	34	77.3	194	5	US-10-617-320-4611	Sequence 4611, Ap	191	32	72.7	336	4	US-10-225-066A-848	Sequence 848, App
119	34	77.3	224	4	US-10-424-599-280547	Sequence 280547,	192	32	72.7	366	5	US-10-374-780A-318	Sequence 318, App
120	34	77.3	236	4	US-10-425-115-236336	Sequence 236336,	193	32	72.7	366	5	US-10-225-066A-848	Sequence 848, App
121	34	77.3	344	4	US-10-424-599-280548	Sequence 280548,	194	32	72.7	333	4	US-10-221-945-3	Sequence 3, App1
122	34	77.3	346	5	US-10-739-930-5798	Sequence 5798, Ap	195	32	72.7	339	4	US-10-207-655-320	Sequence 320, App
123	33.5	76.1	11	3	US-09-891-823-39	Sequence 39, App1	196	32	72.7	339	5	US-10-627-556-90	Sequence 90, App1
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125	33.5	76.1	11	5	US-10-871-138-39	Sequence 39, App1	198	32	72.7	403	5	US-10-627-556-88	Sequence 88, App1
126	33	75.0	9	3	US-09-891-823-33	Sequence 33, App1	199	32	72.7	410	4	US-10-424-599-271035	Sequence 271035,
127	33	75.0	9	3	US-09-891-823-109	Sequence 109, App	200	32	72.7	410	5	US-10-627-556-508	Sequence 508, App
128	33	75.0	9	4	US-10-365-908-33	Sequence 33, App1	201	32	72.7	414	5	US-10-627-556-506	Sequence 506, App
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134	33	75.0	9	5	US-10-871-138-120	Sequence 120, App	207	32	72.7	491	4	US-10-104-047-3243	Sequence 3243, Ap
135	33	75.0	9	5	US-10-924-377-12	Sequence 12, App1	208	32	72.7	491	4	US-10-108-260A-4262	Sequence 4262, Ap
136	33	75.0	10	3	US-09-891-823-337	Sequence 137, App	209	32	72.7	494	4	US-10-108-260A-4290	Sequence 4290, Ap
137	33	75.0	10	4	US-10-365-908-137	Sequence 137, App	210	32	72.7	494	3	US-09-800-729-216	Sequence 216, App
138	33	75.0	10	5	US-10-871-138-137	Sequence 137, App	211	32	72.7	494	4	US-10-108-260A-4078	Sequence 4078, Ap
139	33	75.0	11	3	US-09-891-823-134	Sequence 134, App	212	32	72.7	494	4	US-10-108-260A-4275	Sequence 4275, Ap
140	33	75.0	11	4	US-10-365-908-134	Sequence 134, App	213	32	72.7	494	4	US-10-072-012-798	Sequence 798, App
141	33	75.0	11	5	US-10-871-138-134	Sequence 134, App	214	32	72.7	495	3	US-09-833-245-302	Sequence 302, App
142	33	75.0	15	3	US-09-739-466C-14	Sequence 14, App1	215	32	72.7	495	4	US-10-108-260A-4085	Sequence 4085, App
143	33	75.0	98	5	US-10-367-057-12	Sequence 12, App1	216	32	72.7	495	4	US-10-108-260A-4114	Sequence 4114, App
144	33	75.0	103	3	US-09-738-626-3775	Sequence 3775, Ap	217	32	72.7	495	4	US-10-108-260A-4277	Sequence 4277, App
145	33	75.0	111	4	US-10-074-475-267	Sequence 267, App	218	32	72.7	496	4	US-10-104-047-3006	Sequence 3006, App
146	33	75.0	114	4	US-10-296-115-1051	Sequence 1051, App	219	32	72.7	496	4	US-10-108-260A-4058	Sequence 4058, App
147	33	75.0	129	5	US-10-472-928-4010	Sequence 4010, App	220	32	72.7	497	4	US-10-104-047-3773	Sequence 3773, App
148	33	75.0	390	4	US-10-282-122A-72268	Sequence 24, App1	221	32	72.7	497	4	US-10-108-260A-4244	Sequence 4244, App
149	33	72.7	15	4	US-10-346-162-24	Sequence 24, App1	222	32	72.7	500	4	US-10-108-260A-4285	Sequence 4285, App
150	32	72.7	15	5	US-10-656-250-144	Sequence 24, App1	223	32	72.7	500	4	US-10-108-260A-4684	Sequence 4684, App
151	32	72.7	60	5	US-10-472-928-1154	Sequence 2154, App	224	32	72.7	500	5	US-10-627-556-382	Sequence 382, App
152	32	72.7	106	4	US-10-282-122A-54102	Sequence 54102, A	225	32	72.7	502	4	US-10-207-655-305	Sequence 305, App
153	32	72.7	115	5	US-10-220-335-318	Sequence 318, App	226	32	72.7	502	4	US-10-108-260A-4245	Sequence 4245, App
154	32	72.7	139	4	US-10-424-599-551647	Sequence 251647,	227	32	72.7	502	5	US-10-627-556-76	Sequence 76, App1
155	32	72.7	172	5	US-10-656-053B-117	Sequence 117, App	228	32	72.7	504	4	US-10-072-012-263	Sequence 263, App
156	32	72.7	212	5	US-10-617-316-144	Sequence 144, App	229	32	72.7	507	5	US-10-627-556-254	Sequence 254, App
157	32	72.7	217	4	US-10-424-599-271036	Sequence 271036,	230	32	72.7	508	4	US-10-104-047-3233	Sequence 3233, App
158	32	72.7	220	6	US-11-003-819-53	Sequence 53, App1	231	32	72.7	508	4	US-10-108-260A-3028	Sequence 3028, App
159	32	72.7	236	4	US-10-207-655-303	Sequence 303, App1	232	32	72.7	516	4	US-10-207-655-299	Sequence 299, App
160	32	72.7	236	5	US-10-627-556-74	Sequence 74, App1	233	32	72.7	516	5	US-10-627-556-71	Sequence 71, App1
161	32	72.7	236	5	US-10-627-556-510	Sequence 510, App	234	32	72.7	516	5	US-10-627-556-252	Sequence 252, App
162	32	72.7	241	5	US-10-627-556-256	Sequence 256, App	235	32	72.7	520	4	US-10-207-655-286	Sequence 286, App
163	32	72.7	250	4	US-10-207-655-38	Sequence 38, App1	236	32	72.7	520	5	US-10-627-556-62	Sequence 62, App1
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167	32	72.7	250	6	US-11-089-511-38	Sequence 38, App1	240	32	72.7	538	4	US-10-047-542-99	Sequence 99, App1
168	32	72.7	250	6	US-11-089-190-38	Sequence 38, App1	241	32	72.7	550	5	US-10-627-556-484	Sequence 484, App
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173	32	72.7	250	6	US-11-089-367-38	Sequence 38, App1	246	32	72.7	630	4	US-10-422-628-48	Sequence 48, App1

247	32	72.7	639	4	US-10-422-628-16	Sequence 16, Appl	320	30	68.2	133	4	US-10-282-122A-64930	Sequence 64930, A
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249	32	72.7	679	5	US-10-739-930-6277	Sequence 6277, Ap	322	30	68.2	133	4	US-10-468-156-619	Sequence 619, App
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252	32	72.7	799	4	US-10-047-542-8	Sequence 8, Appl	325	30	68.2	144	4	US-10-425-114-38084	Sequence 38084, A
253	32	72.7	822	4	US-10-369-493-22797	Sequence 48, Appl	326	30	68.2	161	4	US-10-425-114-39592	Sequence 39592, A
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256	32	72.7	1141	4	US-10-741-601-557	Sequence 557, App	329	30	68.2	197	5	US-10-450-763-35214	Sequence 35214, A
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259	32	72.7	1141	5	US-10-741-600-1643	Sequence 1643, Ap	332	30	68.2	211	5	US-10-495-300-18	Sequence 18, Appl
260	32	72.7	1354	6	US-11-097-143-19560	Sequence 19560, A	333	30	68.2	221	4	US-10-425-114-46535	Sequence 46535, A
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264	31	70.5	210	4	US-10-451-337-2	Sequence 2, Appl	337	30	68.2	246	3	US-09-989-723-225	Sequence 225, App
265	31	70.5	210	5	US-10-474-792-508	Sequence 508, App	338	30	68.2	246	3	US-09-989-729-225	Sequence 225, App
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267	31	70.5	290	5	US-10-739-930-5765	Sequence 5765, Ap	340	30	68.2	246	3	US-09-989-731-225	Sequence 225, App
268	31	70.5	300	3	US-09-982-616-9	Sequence 9, Appl	341	30	68.2	246	3	US-09-989-732-225	Sequence 225, App
269	31	70.5	300	3	US-09-773-307B-2	Sequence 2, Appl	342	30	68.2	246	3	US-09-991-073-225	Sequence 225, App
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274	31	70.5	306	4	US-10-322-696-159	Sequence 159, App	347	30	68.2	246	3	US-09-989-721-225	Sequence 225, App
275	31	70.5	349	4	US-10-282-122A-55723	Sequence 55723, A	348	30	68.2	246	3	US-09-992-598-225	Sequence 225, App
276	31	70.5	407	4	US-10-369-493-8342	Sequence 8342, Ap	349	30	68.2	246	3	US-09-989-934-225	Sequence 225, App
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282	31	70.5	760	4	US-10-301-822-55	Sequence 55, Appl	355	30	68.2	246	3	US-09-993-687-225	Sequence 225, App
283	31	70.5	760	5	US-10-723-860-4171	Sequence 4171, Ap	356	30	68.2	246	3	US-09-989-734-225	Sequence 225, App
284	31	70.5	771	4	US-10-884-070A-13	Sequence 13, Appl	357	30	68.2	246	3	US-09-997-653-225	Sequence 225, App
285	31	70.5	771	4	US-10-282-122A-67893	Sequence 67893, A	358	30	68.2	246	3	US-09-989-724-225	Sequence 225, App
286	31	70.5	881	4	US-10-282-122A-52384	Sequence 52384, A	359	30	68.2	246	3	US-09-989-728-225	Sequence 225, App
287	31	70.5	928	4	US-10-437-863-143553	Sequence 143553, A	360	30	68.2	246	3	US-09-990-441-225	Sequence 225, App
288	31	70.5	1016	3	US-09-738-626-4363	Sequence 4363, Ap	361	30	68.2	246	3	US-09-993-667-225	Sequence 225, App
289	31	70.5	1130	4	US-10-437-963-146398	Sequence 146398, A	362	30	68.2	246	3	US-09-997-428-225	Sequence 225, App
290	31	70.5	1677	5	US-10-450-763-40375	Sequence 40375, A	363	30	68.2	246	3	US-09-997-666-225	Sequence 225, App
291	31	70.5	1696	4	US-10-408-765A-822	Sequence 822, App	364	30	68.2	246	3	US-09-990-438-225	Sequence 225, App
292	31	70.5	1720	4	US-10-151-927-8	Sequence 8, Appl	365	30	68.2	246	3	US-09-990-562-225	Sequence 225, App
293	31	70.5	1723	5	US-10-756-149-5136	Sequence 5136, Ap	366	30	68.2	246	3	US-09-990-711-225	Sequence 225, App
294	31	70.5	4128	4	US-10-363-616-416	Sequence 416, App	367	30	68.2	246	3	US-09-989-726-225	Sequence 225, App
295	31	70.5	4128	5	US-10-764-425-152	Sequence 152, App	368	30	68.2	246	3	US-09-989-156-225	Sequence 225, App
296	31	70.5	4128	5	US-10-473-127-568	Sequence 568, App	369	30	68.2	246	3	US-09-990-437-225	Sequence 225, App
297	31	70.5	4128	5	US-10-473-127-573	Sequence 573, App	370	30	68.2	246	3	US-09-991-157-225	Sequence 225, App
298	31	70.5	4128	5	US-10-473-127-574	Sequence 574, App	371	30	68.2	246	3	US-09-997-514-225	Sequence 225, App
299	31	70.5	4128	5	US-10-511-561-3	Sequence 3, Appl	372	30	68.2	246	3	US-09-997-973-225	Sequence 225, App
300	30	68.2	9	5	US-10-924-377-15	Sequence 15, Appl	373	30	68.2	246	3	US-09-991-172-225	Sequence 225, App
301	30	68.2	10	3	US-09-891-823-47	Sequence 47, Appl	374	30	68.2	246	3	US-09-990-726-225	Sequence 225, App
302	30	68.2	10	4	US-10-365-908-47	Sequence 47, Appl	375	30	68.2	246	3	US-09-997-559-225	Sequence 225, App
303	30	68.2	10	5	US-10-871-138-47	Sequence 47, Appl	376	30	68.2	246	3	US-09-997-601-225	Sequence 225, App
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307	30	68.2	94	4	US-10-424-599-243335	Sequence 243335, A	380	30	68.2	246	3	US-09-997-683-225	Sequence 225, App
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314	30	68.2	116	4	US-10-080-170-267	Sequence 267, App	387	30	68.2	246	3	US-09-997-542-225	Sequence 225, App
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319	30	68.2	133	4	US-10-282-122A-62850	Sequence 62850, A	392	30	68.2	246	3	US-09-993-583-225	Sequence 225, App

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395	30	68.2	246	3	US-09-997-533-225	Sequence 225	App	468	30	68.2	246	4	US-10-180-544-600	Sequence 600	App
396	30	68.2	246	3	US-09-997-584-225	Sequence 225	App	469	30	68.2	246	4	US-10-180-546-600	Sequence 600	App
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572	30	68.2	246	4	US-10-197-695-600	Sequence 600, App	645	30	68.2	246	4	US-10-187-987-600	Sequence 600, App
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577	30	68.2	246	4	US-10-176-982-600	Sequence 600, App	650	30	68.2	246	4	US-10-197-697-600	Sequence 600, App
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860	30	68.2	246	4	US-10-147-515-436	Sequence 436, App	933	30	68.2	246	4	US-10-127-828A-436	Sequence 436, App
861	30	68.2	246	4	US-10-147-517-436	Sequence 436, App	934	30	68.2	246	4	US-10-127-830A-436	Sequence 436, App
862	30	68.2	246	4	US-10-147-526-436	Sequence 436, App	935	30	68.2	246	4	US-10-127-832A-436	Sequence 436, App
863	30	68.2	246	4	US-10-147-527-436	Sequence 436, App	936	30	68.2	246	4	US-10-127-833A-436	Sequence 436, App
864	30	68.2	246	4	US-10-175-753-600	Sequence 600, App	937	30	68.2	246	4	US-10-127-834A-436	Sequence 436, App
865	30	68.2	246	4	US-10-180-553-600	Sequence 600, App	938	30	68.2	246	4	US-10-127-836A-436	Sequence 436, App
866	30	68.2	246	4	US-10-201-327-600	Sequence 600, App	939	30	68.2	246	4	US-10-127-841A-436	Sequence 436, App
867	30	68.2	246	4	US-10-121-041-436	Sequence 436, App	940	30	68.2	246	4	US-10-127-844A-436	Sequence 436, App
868	30	68.2	246	4	US-10-121-043-436	Sequence 436, App	941	30	68.2	246	4	US-10-128-687A-436	Sequence 436, App
869	30	68.2	246	4	US-10-121-047-436	Sequence 436, App	942	30	68.2	246	4	US-10-128-688A-436	Sequence 436, App
870	30	68.2	246	4	US-10-121-062-600	Sequence 600, App	943	30	68.2	246	4	US-10-128-689A-436	Sequence 436, App
871	30	68.2	246	4	US-10-123-215-436	Sequence 436, App	944	30	68.2	246	4	US-10-128-694A-436	Sequence 436, App
872	30	68.2	246	4	US-10-123-902-436	Sequence 436, App	945	30	68.2	246	4	US-10-131-825A-436	Sequence 436, App
873	30	68.2	246	4	US-10-123-908-436	Sequence 436, App	946	30	68.2	246	4	US-10-176-491-600	Sequence 600, App
874	30	68.2	246	4	US-10-123-909-436	Sequence 436, App	947	30	68.2	246	4	US-10-176-979-600	Sequence 600, App
875	30	68.2	246	4	US-10-123-910-436	Sequence 436, App	948	30	68.2	246	4	US-10-187-592-600	Sequence 600, App
876	30	68.2	246	4	US-10-124-813-436	Sequence 436, App	949	30	68.2	246	4	US-10-230-417-436	Sequence 436, App
877	30	68.2	246	4	US-10-124-817-436	Sequence 436, App	950	30	68.2	246	4	US-10-131-815A-436	Sequence 436, App
878	30	68.2	246	4	US-10-125-922-436	Sequence 436, App	951	30	68.2	246	4	US-10-131-817A-436	Sequence 436, App
879	30	68.2	246	4	US-10-125-924-436	Sequence 436, App	952	30	68.2	246	4	US-10-131-821A-436	Sequence 436, App
880	30	68.2	246	4	US-10-140-860-436	Sequence 436, App	953	30	68.2	246	4	US-10-131-822A-436	Sequence 436, App
881	30	68.2	246	4	US-10-142-417-436	Sequence 436, App	954	30	68.2	246	4	US-10-131-828A-436	Sequence 436, App
882	30	68.2	246	4	US-10-147-519-436	Sequence 436, App	955	30	68.2	246	4	US-10-131-835A-436	Sequence 436, App
883	30	68.2	246	4	US-10-157-782-436	Sequence 436, App	956	30	68.2	246	4	US-10-137-864A-436	Sequence 436, App
884	30	68.2	246	4	US-10-152-395-436	Sequence 436, App	957	30	68.2	246	4	US-10-137-869A-436	Sequence 436, App
885	30	68.2	246	4	US-10-125-926A-436	Sequence 436, App	958	30	68.2	246	4	US-10-147-523-436	Sequence 436, App
886	30	68.2	246	4	US-10-125-930A-436	Sequence 436, App	959	30	68.2	246	4	US-10-158-785-436	Sequence 436, App
887	30	68.2	246	4	US-10-127-831A-436	Sequence 436, App	960	30	68.2	246	4	US-10-197-691-600	Sequence 600, App
888	30	68.2	246	4	US-10-127-837A-436	Sequence 436, App	961	30	68.2	246	4	US-10-198-771-600	Sequence 600, App
889	30	68.2	246	4	US-10-127-838A-436	Sequence 436, App	962	30	68.2	246	4	US-10-121-051-436	Sequence 436, App
890	30	68.2	246	4	US-10-127-842A-436	Sequence 436, App	963	30	68.2	246	4	US-10-174-575A-600	Sequence 600, App
891	30	68.2	246	4	US-10-127-843A-436	Sequence 436, App	964	30	68.2	246	4	US-10-179-920-600	Sequence 600, App
892	30	68.2	246	4	US-10-127-845A-436	Sequence 436, App	965	30	68.2	246	4	US-10-201-325-600	Sequence 600, App
893	30	68.2	246	4	US-10-127-845A-436	Sequence 436, App	966	30	68.2	246	4	US-10-202-941-600	Sequence 600, App
894	30	68.2	246	4	US-10-127-848A-436	Sequence 436, App	967	30	68.2	246	4	US-10-205-910-600	Sequence 600, App
895	30	68.2	246	4	US-10-127-849A-436	Sequence 436, App	968	30	68.2	246	4	US-10-121-042-436	Sequence 436, App
896	30	68.2	246	4	US-10-127-850A-436	Sequence 436, App	969	30	68.2	246	4	US-10-179-926-600	Sequence 600, App
897	30	68.2	246	4	US-10-127-851A-436	Sequence 436, App	970	30	68.2	246	4	US-10-123-912-436	Sequence 436, App
898	30	68.2	246	4	US-10-128-684A-436	Sequence 436, App	971	30	68.2	246	4	US-10-223-085-142	Sequence 142, App
899	30	68.2	246	4	US-10-128-686A-436	Sequence 436, App	972	30	68.2	246	4	US-10-173-701-600	Sequence 600, App
900	30	68.2	246	4	US-10-128-690A-436	Sequence 436, App	973	30	68.2	246	4	US-10-179-511-600	Sequence 600, App
901	30	68.2	246	4	US-10-128-691A-436	Sequence 436, App	974	30	68.2	246	4	US-10-179-518-600	Sequence 600, App
902	30	68.2	246	4	US-10-131-819A-436	Sequence 436, App	975	30	68.2	246	4	US-10-183-018-600	Sequence 600, App
903	30	68.2	246	4	US-10-131-829A-436	Sequence 436, App	976	30	68.2	246	4	US-10-184-624-600	Sequence 600, App

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977 30 68.2 246 4 US-10-184-657-600 Sequence 600, App
978 30 68.2 246 4 US-10-192-007-436 Sequence 436, App
979 30 68.2 246 4 US-10-194-359-436 Sequence 436, App
980 30 68.2 246 4 US-10-197-701-600 Sequence 600, App
981 30 68.2 246 4 US-10-197-706-600 Sequence 600, App
982 30 68.2 246 4 US-10-201-857-600 Sequence 600, App
983 30 68.2 246 4 US-10-202-413-600 Sequence 600, App
984 30 68.2 246 4 US-10-202-938-600 Sequence 600, App
985 30 68.2 246 4 US-10-202-940-600 Sequence 600, App
986 30 68.2 246 4 US-10-205-508-600 Sequence 600, App
987 30 68.2 246 4 US-10-205-505-600 Sequence 600, App
988 30 68.2 246 4 US-10-206-918-600 Sequence 600, App
989 30 68.2 246 4 US-10-208-025-600 Sequence 600, App
990 30 68.2 246 4 US-10-223-084-142 Sequence 142, App
991 30 68.2 246 4 US-10-223-088-142 Sequence 142, App
992 30 68.2 246 4 US-10-223-090-142 Sequence 142, App
993 30 68.2 246 4 US-10-223-087-142 Sequence 142, App
994 30 68.2 246 4 US-10-198-760-600 Sequence 600, App
995 30 68.2 246 4 US-10-201-772-600 Sequence 600, App
996 30 68.2 246 4 US-10-127-847A-436 Sequence 436, App
997 30 68.2 246 4 US-10-184-613-600 Sequence 600, App
998 30 68.2 246 4 US-10-187-739-600 Sequence 600, App
999 30 68.2 246 4 US-10-206-907-600 Sequence 600, App
1000 30 68.2 246 4 US-10-223-083-142 Sequence 142, App

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ALIGNMENTS

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RESULT 1
US-09-891-823-6
; Sequence 6, Application US/09891823
; Publication No. US20020110566A1
; GENERAL INFORMATION:
; APPLICANT: Neefe, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/09/891,823
; CURRENT FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-09-891-823-6

Query Match          100.0%; Score 44; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLBDLMGT 9
Db 1 TLBDLMGT 9

RESULT 2
US-10-365-908-6
; Sequence 6, Application US/10365908
; Publication No. US20030170268A1
; GENERAL INFORMATION:
; APPLICANT: Neefe, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT

```

```

; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/10/365,908
; CURRENT FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US/09/891,823
; PRIOR FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-10-365-908-6

Query Match          100.0%; Score 44; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLBDLMGT 9
Db 1 TLBDLMGT 9

```

```

RESULT 3
US-10-871-138-6
; Sequence 6, Application US/10871138
; Publication No. US20040235741A1
; GENERAL INFORMATION:
; APPLICANT: Neefe, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/10/871,138
; CURRENT FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: US/09/891,823
; PRIOR FILING DATE: 2001-06-26
; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-10-871-138-6

Query Match          100.0%; Score 44; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLBDLMGT 9
Db 1 TLBDLMGT 9

RESULT 4
US-09-891-823-18
; Sequence 18, Application US/09891823
; Publication No. US20020110566A1
; GENERAL INFORMATION:
; APPLICANT: Neefe, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/09/891,823
; CURRENT FILING DATE: 2001-10-19

```

;; PRIOR APPLICATION NUMBER: US 60/214,202
;; PRIOR FILING DATE: 2000-06-26
;; NUMBER OF SEQ ID NOS: 140
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 18
;; LENGTH: 10
;; TYPE: PRT
;; ORGANISM: Human papilloma virus
US-09-891-823-18

Query Match 100.0%; Score 44; DB 3; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.036;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLMGT 9
Db 2 TLEDLMGT 10

RESULT 5
US-09-891-823-42

;; Sequence 42, Application US/09891823
;; Publication No.: US20020110566A1
;; GENERAL INFORMATION:
;; APPLICANT: Neefe, John R.
;; APPLICANT: Boux, Leslie J.
;; APPLICANT: Winnett, Mark T.
;; APPLICANT: Goldstone, Stephen E.
;; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
;; FILE REFERENCE: 12071-003001
;; CURRENT APPLICATION NUMBER: US/09/891,823
;; PRIOR FILING DATE: 2001-10-19
;; PRIOR APPLICATION NUMBER: US 60/214,202
;; NUMBER OF SEQ ID NOS: 140
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 42
;; LENGTH: 10
;; TYPE: PRT
;; ORGANISM: Human papilloma virus
US-09-891-823-42

Query Match 100.0%; Score 44; DB 3; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.036;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLMGT 9
Db 1 TLEDLMGT 9

RESULT 6
US-10-365-908-18
;; Sequence 18, Application US/10365908
;; Publication No.: US20030170268A1
;; GENERAL INFORMATION:
;; APPLICANT: Neefe, John R.
;; APPLICANT: Boux, Leslie J.
;; APPLICANT: Winnett, Mark T.
;; APPLICANT: Goldstone, Stephen E.
;; APPLICANT: Siegel, Marvin
;; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
;; FILE REFERENCE: 12071-003001
;; CURRENT APPLICATION NUMBER: US/10/365,908
;; PRIOR FILING DATE: 2003-02-13
;; PRIOR APPLICATION NUMBER: US/09/891,823
;; PRIOR FILING DATE: 2001-10-19
;; PRIOR APPLICATION NUMBER: US 60/214,202
;; NUMBER OF SEQ ID NOS: 140
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 18

;; LENGTH: 10
;; TYPE: PRT
;; ORGANISM: Human papilloma virus
US-10-365-908-18

Query Match 100.0%; Score 44; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.036;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLMGT 9
Db 2 TLEDLMGT 10

RESULT 7
US-10-365-908-42

;; Sequence 42, Application US/10365908
;; Publication No.: US20030170268A1
;; GENERAL INFORMATION:
;; APPLICANT: Neefe, John R.
;; APPLICANT: Boux, Leslie J.
;; APPLICANT: Winnett, Mark T.
;; APPLICANT: Goldstone, Stephen E.
;; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
;; FILE REFERENCE: 12071-003001
;; CURRENT APPLICATION NUMBER: US/10/365,908
;; PRIOR FILING DATE: 2003-02-13
;; PRIOR APPLICATION NUMBER: US/09/891,823
;; PRIOR FILING DATE: 2001-10-19
;; PRIOR APPLICATION NUMBER: US 60/214,202
;; NUMBER OF SEQ ID NOS: 140
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 42
;; LENGTH: 10
;; TYPE: PRT
;; ORGANISM: Human papilloma virus
US-10-365-908-42

Query Match 100.0%; Score 44; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.036;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLMGT 9
Db 1 TLEDLMGT 9

RESULT 8
US-10-871-138-18
;; Sequence 18, Application US/10871138
;; Publication No.: US20040235741A1
;; GENERAL INFORMATION:
;; APPLICANT: Neefe, John R.
;; APPLICANT: Boux, Leslie J.
;; APPLICANT: Winnett, Mark T.
;; APPLICANT: Goldstone, Stephen E.
;; APPLICANT: Siegel, Marvin
;; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
;; FILE REFERENCE: 12071-003001
;; CURRENT APPLICATION NUMBER: US/10/871,138
;; PRIOR FILING DATE: 2004-06-18
;; PRIOR APPLICATION NUMBER: US/09/891,823
;; PRIOR FILING DATE: 2001-06-26
;; PRIOR APPLICATION NUMBER: US 60/214,202
;; NUMBER OF SEQ ID NOS: 140
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 18
;; LENGTH: 10
;; TYPE: PRT
;; ORGANISM: Human papilloma virus

US-10-871-138-18

Query Match 100.0%; Score 44; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.036;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLMGT 9
| | | | |
| | | | |
Db 2 TLEDLMGT 10

RESULT 9

US-10-871-138-42
; Sequence 42, Application US/10871138
; Publication No. US20040235741A1
; GENERAL INFORMATION:
; APPLICANT: Neeffe, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/10/871,138
; CURRENT FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: US/09/891,823
; PRIOR FILING DATE: 2001-06-26
; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 42
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-10-871-138-42

Query Match 100.0%; Score 44; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.036;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLMGT 9
| | | | |
| | | | |
Db 1 TLEDLMGT 9

RESULT 10
US-10-648-547-68
; Sequence 68, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 68
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-68

Query Match 100.0%; Score 44; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.057;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLMGT 9
| | | | |
| | | | |
Db 7 TLEDLMGT 15

RESULT 11
US-10-648-547-75
; Sequence 75, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 75
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-75

Query Match 100.0%; Score 44; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.057;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLMGT 9
| | | | |
| | | | |
Db 1 TLEDLMGT 9

RESULT 12
US-10-648-547-78
; Sequence 78, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 78
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-78

Query Match 100.0%; Score 44; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.057;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLMGT 9
| | | | |
| | | | |
Db 6 TLEDLMGT 14

RESULT 13
US-10-648-547-79
; Sequence 79, Application US/10648547
; Publication No. US20040147044A1


```
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; PRIOR FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 79
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-79

Query Match          100.0%; Score 44; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.057;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLMGT 9
   |||||
Db 3 TLEDLMGT 11

RESULT 14
US-10-648-547-95
; Sequence 95, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 95
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-95

Query Match          100.0%; Score 44; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.057;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLMGT 9
   |||||
Db 2 TLEDLMGT 10

RESULT 15
US-10-476-570-50
; Sequence 50, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: GUILLET, Jean-Gerard
; APPLICANT: MITTELMAN, Abraham
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
```

```
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 50
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E7 72-86
US-10-476-570-50

Query Match          100.0%; Score 44; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.057;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLMGT 9
   |||||
Db 7 TLEDLMGT 15

RESULT 16
US-10-476-570-51
; Sequence 51, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: GUILLET, Jean-Gerard
; APPLICANT: POUVELLE-MORATILLE, Sandra
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 51
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E7 77-91
US-10-476-570-51

Query Match          100.0%; Score 44; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.057;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLMGT 9
   |||||
Db 2 TLEDLMGT 10

RESULT 17
US-10-306-541-68
; Sequence 68, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
```

```
; FILE REFERENCE: 12354/4
; CURRENT APPLICATION NUMBER: US/10/306,541
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 2001-11-23
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO: 68
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
; US-10-306-541-68
```

```
Query Match          100.0%; Score 44; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.057;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 TLEDDLMT 9
Db 7 TLEDDLMT 15
```

```
RESULT 18
US-10-306-541-75
; Sequence 75, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/4
; CURRENT APPLICATION NUMBER: US/10/306,541
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 2001-11-23
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO: 75
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
; US-10-306-541-75
```

```
Query Match          100.0%; Score 44; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.057;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 TLEDDLMT 9
Db 1 TLEDDLMT 9
```

```
RESULT 19
US-10-306-541-78
; Sequence 78, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/4
; CURRENT APPLICATION NUMBER: US/10/306,541
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 2001-11-23
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO: 78
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
; US-10-306-541-78
```

```
Query Match          100.0%; Score 44; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.057;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 TLEDDLMT 9
Db 6 TLEDDLMT 14
```

```
RESULT 20
US-10-306-541-79
; Sequence 79, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/4
; CURRENT APPLICATION NUMBER: US/10/306,541
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 2001-11-23
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO: 79
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
; US-10-306-541-79
```

```
Query Match          100.0%; Score 44; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.057;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 TLEDDLMT 9
Db 3 TLEDDLMT 11
```

```
RESULT 21
US-10-306-541-95
; Sequence 95, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/4
; CURRENT APPLICATION NUMBER: US/10/306,541
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 2001-11-23
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO: 95
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
; US-10-306-541-95
```

```
Query Match          100.0%; Score 44; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.057;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 TLEDDLMT 9
Db 2 TLEDDLMT 10
```

```
RESULT 22
US-10-432-465-50
; Sequence 50, Application US/10432465
; Publication No. US20040091479A1
```

```
; GENERAL INFORMATION:
; APPLICANT: Kaufmann, John
; APPLICANT: Kaufmann, Andreas
; APPLICANT: Kather, Angela
; APPLICANT: Schinz, Manuela
; TITLE OF INVENTION: T-Cell Epitopes of the Papillomavirus L1
; TITLE OF INVENTION: Protein and E7 Protein and Their Use in Diagnosis and
; FILE REFERENCE: 50125/077001
; CURRENT APPLICATION NUMBER: US/10/432,465
; PRIOR FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: PCT/EP01/14037
; PRIOR FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: DE 10059631.2
; PRIOR FILING DATE: 2000-12-01
; NUMBER OF SEQ ID NOS: 116
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 50
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-432-465-50

Query Match          100.0%; Score 44; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.078;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLBDLMGT 9
Db 12 TLBDLMGT 20

RESULT 23
US-10-890-526-75
; Sequence 75; Application US/10890526
; Publication No. US20040258708A1
; GENERAL INFORMATION:
; APPLICANT: Joehmus, Ingrid
; APPLICANT: Nieland, John
; TITLE OF INVENTION: Cytotoxic T-Cell Epitopes of the
; TITLE OF INVENTION: Papilloma Virus L1-Protein and Use Thereof in Diagnosis and
; FILE REFERENCE: 50125/036001
; CURRENT APPLICATION NUMBER: US/10/890,526
; PRIOR FILING DATE: 2004-07-13
; PRIOR APPLICATION NUMBER: US/09/980,177
; PRIOR FILING DATE: 2002-05-02
; PRIOR APPLICATION NUMBER: PCT/EP00/05006
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: DE 19925199.1
; PRIOR FILING DATE: 1999-06-01
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 75
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-890-526-75

Query Match          100.0%; Score 44; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.078;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLBDLMGT 9
Db 12 TLBDLMGT 20

RESULT 24
US-10-484-063-19
; Sequence 19; Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHAEL
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; PRIOR FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 19
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-19

Query Match          100.0%; Score 44; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.078;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLBDLMGT 9
Db 4 TLBDLMGT 12

RESULT 25
US-10-432-465-51
; Sequence 51; Application US/10432465
; Publication No. US20040091479A1
; GENERAL INFORMATION:
; APPLICANT: Nieland, John
; APPLICANT: Kaufmann, Andreas
; APPLICANT: Kather, Angela
; APPLICANT: Schinz, Manuela
; TITLE OF INVENTION: T-Cell Epitopes of the Papillomavirus L1
; TITLE OF INVENTION: Protein and E7 Protein and Their Use in Diagnosis and
; FILE REFERENCE: 50125/077001
; CURRENT APPLICATION NUMBER: US/10/432,465
; PRIOR FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: PCT/EP01/14037
; PRIOR FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: DE 10059631.2
; PRIOR FILING DATE: 2000-12-01
; NUMBER OF SEQ ID NOS: 116
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 51
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-432-465-51

Query Match          100.0%; Score 44; DB 4; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.082;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLBDLMGT 9
Db 1 TLBDLMGT 9

RESULT 26
US-10-476-570-18
; Sequence 18; Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
```

```
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHAEL
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; PRIOR FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 19
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-19

Query Match          100.0%; Score 44; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.078;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLBDLMGT 9
Db 4 TLBDLMGT 12

RESULT 25
US-10-432-465-51
; Sequence 51; Application US/10432465
; Publication No. US20040091479A1
; GENERAL INFORMATION:
; APPLICANT: Nieland, John
; APPLICANT: Kaufmann, Andreas
; APPLICANT: Kather, Angela
; APPLICANT: Schinz, Manuela
; TITLE OF INVENTION: T-Cell Epitopes of the Papillomavirus L1
; TITLE OF INVENTION: Protein and E7 Protein and Their Use in Diagnosis and
; FILE REFERENCE: 50125/077001
; CURRENT APPLICATION NUMBER: US/10/432,465
; PRIOR FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: PCT/EP01/14037
; PRIOR FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: DE 10059631.2
; PRIOR FILING DATE: 2000-12-01
; NUMBER OF SEQ ID NOS: 116
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 51
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-432-465-51

Query Match          100.0%; Score 44; DB 4; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.082;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLBDLMGT 9
Db 1 TLBDLMGT 9

RESULT 26
US-10-476-570-18
; Sequence 18; Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
```

APPLICANT: BOURGAULT-VILLADA, Isabelle
APPLICANT: POUVELLE-MORATILLE, Sandra
APPLICANT: GUILLET, Jean-Gerard
TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
FILE REFERENCE: 45636-5071-US
CURRENT APPLICATION NUMBER: US/10/476,570
CURRENT FILING DATE: 2003-11-04
PRIOR APPLICATION NUMBER: PCT/FR02/01533
PRIOR FILING DATE: 2002-05-03
PRIOR APPLICATION NUMBER: FR 01 05980
PRIOR FILING DATE: 2001-05-04
NUMBER OF SEQ ID NOS: 63
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 18
LENGTH: 21
TYPE: PRT
ORGANISM: artificial sequence
FEATURE:
OTHER INFORMATION: Description of the artificial sequence: peptide E7 78-98
US-10-476-570-18

Query Match 100.0%; Score 44; DB 4; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.082;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLMGT 9
Db 1 TLEDLMGT 9

RESULT 27
US-10-890-526-76
Sequence 76, Application US/10890526
Publication No. US20040258708A1
GENERAL INFORMATION:
APPLICANT: Jochmus, Ingrid
APPLICANT: Nieland, John
TITLE OF INVENTION: Cytotoxic T-Cell Epitopes of the
TITLE OF INVENTION: Papilloma Virus L1-Protein and Use Thereof in Diagnosis and
TITLE OF INVENTION: Therapy
FILE REFERENCE: 50125/036001
CURRENT APPLICATION NUMBER: US/10/890,526
CURRENT FILING DATE: 2004-07-13
PRIOR APPLICATION NUMBER: US/09/980,177
PRIOR FILING DATE: 2002-05-02
PRIOR APPLICATION NUMBER: PCT/EP00/05006
PRIOR FILING DATE: 2000-05-31
PRIOR APPLICATION NUMBER: DE 19925199.1
PRIOR FILING DATE: 1999-06-01
NUMBER OF SEQ ID NOS: 77
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 76
LENGTH: 21
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-890-526-76

Query Match 100.0%; Score 44; DB 5; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.082;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLMGT 9
Db 1 TLEDLMGT 9

RESULT 28
US-10-476-570-17
Sequence 17, Application US/10476570
Publication No. US20040170644A1
GENERAL INFORMATION:
APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE

APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
APPLICANT: MAILLIERE, Bernard
APPLICANT: BOURGAULT-VILLADA, Isabelle
APPLICANT: POUVELLE-MORATILLE, Sandra
APPLICANT: GUILLET, Jean-Gerard
TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
FILE REFERENCE: 45636-5071-US
CURRENT APPLICATION NUMBER: US/10/476,570
CURRENT FILING DATE: 2003-11-04
PRIOR APPLICATION NUMBER: PCT/FR02/01533
PRIOR FILING DATE: 2002-05-03
PRIOR APPLICATION NUMBER: FR 01 05980
PRIOR FILING DATE: 2001-05-04
NUMBER OF SEQ ID NOS: 63
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 17
LENGTH: 23
TYPE: PRT
ORGANISM: artificial sequence
FEATURE:
OTHER INFORMATION: Description of the artificial sequence: peptide E7 65-87
US-10-476-570-17

Query Match 100.0%; Score 44; DB 4; Length 23;
Best Local Similarity 100.0%; Pred. No. 0.091;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLMGT 9
Db 14 TLEDLMGT 22

RESULT 29
US-09-728-466-1
Sequence 1, Application US/09728466
Patent No. US20010029022A1
GENERAL INFORMATION:
APPLICANT: Fisher, Christopher
APPLICANT: He, Manxia
TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
FILE REFERENCE: 28341/6216
CURRENT APPLICATION NUMBER: US/09/728,466
CURRENT FILING DATE: 2000-12-01
PRIOR APPLICATION NUMBER: 09/382,616
PRIOR FILING DATE: 1999-08-25
NUMBER OF SEQ ID NOS: 43
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 1
LENGTH: 98
TYPE: PRT
ORGANISM: Papillomavirus sylvilagi
US-09-728-466-1

Query Match 100.0%; Score 44; DB 3; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.45;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLMGT 9
Db 78 TLEDLMGT 86

RESULT 30
US-09-820-765-4
Sequence 4, Application US/09820765
Publication No. US20020039584A1
GENERAL INFORMATION:
APPLICANT: BURGER, Alexander
APPLICANT: HALLER, Michael
TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
FORMULATIONS AND METHODS OF USE
NUMBER OF SEQUENCES: 28

;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: FOLEY & LARDNER
;; STREET: 3000 K Street, N.W.
;; CITY: Washington
;; STATE: D.C.
;; COUNTRY: U.S.A.
;; ZIP: 20007-5109
;;
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; OPERATING SYSTEM: IBM PC compatible
;; SOFTWARE: Patentin Release #1.0, Version #1.30
;;
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/09/820,765
;; FILING DATE: 30-Mar-2001
;; CLASSIFICATION: <Unknown>
;;
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 09/026,896
;; FILING DATE: 20-FEB-1998
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Sandercock, Colin G.
;; REGISTRATION NUMBER: 31,298
;; REFERENCE/DOCKET NUMBER: 37067/102
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (202) 672-5300
;; TELEFAX: (202) 672-5399
;;
;; INFORMATION FOR SEQ ID NO: 4:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 98 amino acids
;; TYPE: amino acid
;; TOPOLOGY: linear
;;
;; MOLECULE TYPE: protein
;;
;; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-820-765-4

Query Match 100.0%; Score 44; DB 3; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.45;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLEDLMGT 9
Db 78 TLEDLMGT 86

RESULT 31
US-09-824-017-4
Sequence 4, Application US/09824017
Publication No. US20020197668A1
GENERAL INFORMATION:
APPLICANT: BURGER, Alexander
HALLEK, Michael
TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
FORMULATIONS AND METHODS OF USE
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/824,017
FILING DATE: 03-Apr-2001
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/026,896
FILING DATE: 1998-02-20

;; ATTORNEY/AGENT INFORMATION:
;; NAME: Sandercock, Colin G.
;; REGISTRATION NUMBER: 31,298
;; REFERENCE/DOCKET NUMBER: 37067/102
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (202) 672-5300
;; TELEFAX: (202) 672-5399
;;
;; INFORMATION FOR SEQ ID NO: 4:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 98 amino acids
;; TYPE: amino acid
;; TOPOLOGY: linear
;;
;; MOLECULE TYPE: protein
;;
;; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-824-017-4

Query Match 100.0%; Score 44; DB 3; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.45;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLEDLMGT 9
Db 78 TLEDLMGT 86

RESULT 32
US-09-986-118A-4
Sequence 4, Application US/09986118A
Publication No. US20030021806A1
GENERAL INFORMATION:
APPLICANT: BURGER, Alexander
HALLEK, Michael
TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
FORMULATIONS AND METHODS OF USE
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/986,118A
FILING DATE: 07-No. US20030021806A1-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/026,896
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Sandercock, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-986-118A-4

Qy 1 TLEDLMGT 9
| | | | |
Db 78 TLEDLMGT 86

RESULT 33
US-10-267-311-8
; Sequence 8, Application US/10267311
; Publication No. US20030050469A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizer, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/267,311
; CURRENT FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-267-311-8

Query Match 100.0%; Score 44; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.45;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLEDLMGT 9
| | | | |
Db 78 TLEDLMGT 86

RESULT 34
US-10-177-390-8
; Sequence 8, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
; APPLICANT: Schuler, Gerold
; APPLICANT: N.V. Antwerp Innovatiecentrum
; TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with Linear
; FILE REFERENCE: 021505wo/JH/ml
; CURRENT APPLICATION NUMBER: US/10/177,390
; CURRENT FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: fragment of
; OTHER INFORMATION: human papilloma virus type 16 E7 gene
US-10-177-390-8

Query Match 100.0%; Score 44; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.45;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLEDLMGT 9
| | | | |
Db 78 TLEDLMGT 86

RESULT 35
US-10-201-764-19
; Sequence 19, Application US/10201764
; Publication No. US2003016140A1
; GENERAL INFORMATION:
; APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
; FILE REFERENCE: TBA
; CURRENT APPLICATION NUMBER: US/10/201,764
; CURRENT FILING DATE: 2002-07-22
; PRIOR APPLICATION NUMBER: US/09/566,420
; PRIOR FILING DATE: 2000-05-05
; PRIOR APPLICATION NUMBER: 60/132,752
; PRIOR FILING DATE: 1999-05-06
; PRIOR APPLICATION NUMBER: 60/132,750
; PRIOR FILING DATE: 1999-05-06
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type E7
US-10-201-764-19

Query Match 100.0%; Score 44; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.45;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLEDLMGT 9
| | | | |
Db 78 TLEDLMGT 86

RESULT 36
US-10-392-113-29
; Sequence 29, Application US/10392113
; Publication No. US20030224993A1
; GENERAL INFORMATION:
; APPLICANT: Land, Hartmut
; APPLICANT: Deleu, Laurent
; TITLE OF INVENTION: COMPOSITIONS THAT INHIBIT PROLIFERATION
; FILE REFERENCE: 21108.0005U3
; CURRENT APPLICATION NUMBER: US/10/392,113
; CURRENT FILING DATE: 2003-03-17
; PRIOR APPLICATION NUMBER: 60/365,078
; PRIOR FILING DATE: 2002-03-15
; PRIOR APPLICATION NUMBER: PCT/US01/32127
; PRIOR FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 60/239,705
; PRIOR FILING DATE: 2000-10-12
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:/Note =
; OTHER INFORMATION: Synthetic Construct
US-10-392-113-29

Query Match 100.0%; Score 44; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.45;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLEDLMGT 9
| | | | |
Db 78 TLEDLMGT 86

RESULT 37

US-10-654-129-4
; Sequence 4, Application US/10654129
; Publication No. US20040081661A1
; GENERAL INFORMATION:
; APPLICANT: BURGER, Alexander
; HALLER, Michael
; TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
; FORMULATIONS AND METHODS OF USE
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY & LARDNER
; STREET: 3000 K Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/654,129
; FILING DATE: 04-Sep-2003
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/824,017
; FILING DATE: 03-Apr-2001
; APPLICATION NUMBER: 09/026,896
; FILING DATE: 1998-02-20
; ATTORNEY/AGENT INFORMATION:
; NAME: Sandercock, Colin G.
; REGISTRATION NUMBER: 31,298
; TELEPHONE: (202) 672-5300
; TELEFAX: (202) 672-5399
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-10-654-129-4
Query Match 100.0%; Score 44; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.45;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TLEDLNMG 9
DB 78 TLEDLNMG 86
RESULT 38
US-10-681-410-19
; Sequence 19, Application US/10681410
; Publication No. US20040096426A1
; GENERAL INFORMATION:
; APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
; TITLE OF INVENTION: IMMUNE RESPONSE
; FILE REFERENCE: IBA
; CURRENT APPLICATION NUMBER: US/10/681,410
; CURRENT FILING DATE: 2003-10-08
; PRIOR APPLICATION NUMBER: US/10/201,764
; PRIOR FILING DATE: 2002-07-22
; PRIOR APPLICATION NUMBER: US/09/566,420
; PRIOR FILING DATE: 2000-05-05
; PRIOR APPLICATION NUMBER: 60/132,752
; PRIOR FILING DATE: 1999-05-06
; PRIOR APPLICATION NUMBER: 60/132,750

; PRIOR FILING DATE: 1999-05-06
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: Patent Ver. 2.0
; SEQ ID NO 19
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type E7
US-10-681-410-19
Query Match 100.0%; Score 44; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.45;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TLEDLNMG 9
DB 78 TLEDLNMG 86
RESULT 39
US-10-772-988-3
; Sequence 3, Application US/10772988
; Publication No. US20040139485A1
; GENERAL INFORMATION:
; APPLICANT: Thorngelteson, Snorri S.
; APPLICANT: Woltsch, Joseph T.
; APPLICANT: Zhang, Minghuang
; TITLE OF INVENTION: CDNA ENCODING A GENE BOG (B5T OVER-EXPRESSED GENE) AND ITS PROTEIN
; TITLE OF INVENTION: PRODUCT
; FILE REFERENCE: 11613.25USM1
; CURRENT APPLICATION NUMBER: US/10/772,988
; CURRENT FILING DATE: 2004-02-05
; PRIOR APPLICATION NUMBER: US/09/637,746
; PRIOR FILING DATE: 2000-08-11
; PRIOR APPLICATION NUMBER: PCT/US99/04142
; PRIOR FILING DATE: 1999-02-25
; PRIOR APPLICATION NUMBER: US 60/079,567
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: US 60/075,922
; PRIOR FILING DATE: 1998-02-25
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patent version 3.1
; SEQ ID NO 3
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-772-988-3
Query Match 100.0%; Score 44; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.45;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TLEDLNMG 9
DB 78 TLEDLNMG 86
RESULT 40
US-10-479-541-5
; Sequence 5, Application US/10479541
; Publication No. US20040151723A1
; GENERAL INFORMATION:
; APPLICANT: Kitiin Beer Kabuhiki Kaisha
; TITLE OF INVENTION: Novel E7 antigen epitope from human papillomavirus and
; TITLE OF INVENTION: CD4+ T cells activated thereby
; FILE REFERENCE: 137240PX
; CURRENT APPLICATION NUMBER: US/10/479,541
; CURRENT FILING DATE: 2003-12-04
; PRIOR APPLICATION NUMBER: 173803/2001
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: Patent Ver. 2.1
; SEQ ID NO 5
; LENGTH: 98

TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-479-541-5

Query Match 100.0%; Score 44; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.45;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDDLMT 9
Db 78 TLEDDLMT 86

RESULT 41
US-10-042-526A-4
Sequence 4, Application US/10042526A
Publication No. US20050031636A1
GENERAL INFORMATION:
APPLICANT: GISSMANN, et al.
TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE FORMULATIONS AND METHODS OF USE
FILE REFERENCE: 27013/38150
CURRENT APPLICATION NUMBER: US/10/042,526A
CURRENT FILING DATE: 2002-04-29
PRIOR APPLICATION NUMBER: US 09/632,286
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: US 08/944,368
PRIOR FILING DATE: 1997-10-06
NUMBER OF SEQ ID NOS: 28
SOFTWARE: PatentIn version 3.3
SEQ ID NO 4
LENGTH: 98
TYPE: PRT
ORGANISM: Human Papilloma Virus
US-10-042-526A-4

Query Match 100.0%; Score 44; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.45;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDDLMT 9
Db 78 TLEDDLMT 86

RESULT 42
US-10-657-399-1
Sequence 1, Application US/10657399
Publication No. US20050032038A1
GENERAL INFORMATION:
APPLICANT: Fisher, Christopher
TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
FILE REFERENCE: 28341/6216
CURRENT APPLICATION NUMBER: US/10/657,399
CURRENT FILING DATE: 2003-09-08
PRIOR APPLICATION NUMBER: US/09/728,466
PRIOR FILING DATE: 2000-12-01
PRIOR APPLICATION NUMBER: 09/382,616
PRIOR FILING DATE: 1999-08-25
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1
LENGTH: 98
TYPE: PRT
ORGANISM: Papillomavirus bY1v1agl
US-10-657-399-1

Query Match 100.0%; Score 44; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.45;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 78 TLEDDLMT 86

RESULT 43
US-10-858-384-12
Sequence 12, Application US/10858384
Publication No. US20050033025A1
GENERAL INFORMATION:
APPLICANT: CHOPIN, JEANNINE
APPLICANT: BOURGULT VILLADA, ISABELLE
APPLICANT: GUILLET, JEAN-GERARD
APPLICANT: CONNAN, FRANCINE
APPLICANT: FERRIES, ESTELLE
TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
FILE REFERENCE: 0508-1037-1
CURRENT APPLICATION NUMBER: US/10/858,384
CURRENT FILING DATE: 2004-06-02
PRIOR APPLICATION NUMBER: FR 9907012
PRIOR FILING DATE: 1999-06-03
NUMBER OF SEQ ID NOS: 24
SOFTWARE: PatentIn Ver. 3.2
SEQ ID NO 12
LENGTH: 98
TYPE: PRT
ORGANISM: Human Papillomavirus
US-10-858-384-12

Query Match 100.0%; Score 44; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.45;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDDLMT 9
Db 78 TLEDDLMT 86

RESULT 44
US-10-484-063-26
Sequence 26, Application US/10484063
Publication No. US20050048467A1
GENERAL INFORMATION:
APPLICANT: SASTRY, K. JAGANNADHA
APPLICANT: TORTOLERO-LUNA, GUILTERMO
TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
FILE REFERENCE: VISC.560US
CURRENT APPLICATION NUMBER: US/10/484,063
CURRENT FILING DATE: 2004-01-16
PRIOR APPLICATION NUMBER: PCT/US02/23198
PRIOR FILING DATE: 2002-07-19
PRIOR APPLICATION NUMBER: 60/306,809
PRIOR FILING DATE: 2001-07-20
NUMBER OF SEQ ID NOS: 27
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 26
LENGTH: 98
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-484-063-26

Query Match 100.0%; Score 44; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.45;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDDLMT 9
Db 78 TLEDDLMT 86

RESULT 45


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US-10-343-448-5
; Sequence 5, Application US/10343448
; Publication No. US20050054820A1
; GENERAL INFORMATION:
; APPLICANT: WU, Tzyy-Chiou
; APPLICANT: HUNG, Chien-Fu
; TITLE OF INVENTION: MOLECULAR VACCINE LINKING AN ENDOPLASMIC RETICULUM CHAPERONE
; FILE REFERENCE: 2240-186463
; CURRENT APPLICATION NUMBER: US/10/343,448
; CURRENT FILING DATE: 2003-01-31
; PRIOR APPLICATION NUMBER: PCT/US01/24134
; PRIOR FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: US 60/222,902
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: Patent version 3.1
; SEQ ID NO 5
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-343-448-5

Query Match      100.0%; Score 44; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.45;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TLEDLMGT 9
Db      78 TLEDLMGT 86

RESULT 46
US-10-679-956-8
; Sequence 8, Application US/10679956
; Publication No. US20050089841A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A THI-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/679,956
; CURRENT FILING DATE: 2003-10-06
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-679-956-8

Query Match      100.0%; Score 44; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.45;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TLEDLMGT 9
Db      78 TLEDLMGT 86

RESULT 47
US-10-367-057-17
; Sequence 17, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
; APPLICANT: Cuthill, Scott;
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; APPLICANT: Jackson, Amanda;
; APPLICANT: Lewin, David A.;
; APPLICANT: Ooi, Chuan Eng
; TITLE OF INVENTION: Complexes and Methods of Using Same
; FILE REFERENCE: 21402-559
; CURRENT APPLICATION NUMBER: US/10/367,057
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: 60/256,911
; PRIOR FILING DATE: 2002-02-14
; NUMBER OF SEQ ID NOS: 198
; SOFTWARE: CuroSeqList version 0.1
; SEQ ID NO 17
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-367-057-17

Query Match      100.0%; Score 44; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.45;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TLEDLMGT 9
Db      78 TLEDLMGT 86

RESULT 48
US-11-077-939-5
; Sequence 5, Application US/11077939
; Publication No. US20050196865A1
; GENERAL INFORMATION:
; APPLICANT: Frazer, Ian Hector
; TITLE OF INVENTION: Gene Expression System Based on Codon Translation Efficiency
; FILE REFERENCE: 10338-11U1
; CURRENT APPLICATION NUMBER: US/11/077,939
; CURRENT FILING DATE: 2005-03-11
; PRIOR APPLICATION NUMBER: PCT/AU2003/001200
; PRIOR FILING DATE: 2003-09-12
; PRIOR APPLICATION NUMBER: US 60/410410
; PRIOR FILING DATE: 2002-09-13
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: Patent version 3.2
; SEQ ID NO 5
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-11-077-939-5

Query Match      100.0%; Score 44; DB 6; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.45;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TLEDLMGT 9
Db      78 TLEDLMGT 86

RESULT 49
US-10-115-440-7
; Sequence 7, Application US/10115440
; Publication No. US20040086845A1
; GENERAL INFORMATION:
; APPLICANT: WU, Tzyy-Chiou
; APPLICANT: HUNG, Chien-Fu
; TITLE OF INVENTION: SUPERIOR MOLECULAR VACCINE LINKING THE TRANSLOCATION DOMAIN OF A
; FILE REFERENCE: 02240-179934
; CURRENT APPLICATION NUMBER: US/10/115,440
; CURRENT FILING DATE: 2002-09-30
; PRIOR APPLICATION NUMBER: US 60/281,003
; PRIOR FILING DATE: 2001-04-04
; PRIOR APPLICATION NUMBER: PCT/US00/41422
; PRIOR FILING DATE: 2000-10-20
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; PRIOR APPLICATION NUMBER: US 09/501,097
; PRIOR FILING DATE: 2000-02-09
; PRIOR APPLICATION NUMBER: US 09/421,608
; PRIOR FILING DATE: 1999-10-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patent version 3.1
; SEQ ID NO 7
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-115-440-7

Query Match 100.0%; Score 44; DB 4; Length 99;
Best Local Similarity 100.0%; Pred. No. 0.46;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLMGT 9
Db 78 TLEDLMGT 86

RESULT 50
US-10-472-724-4
; Sequence 4, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
; APPLICANT: Cid-Arregui, Angel
; APPLICANT: Zur Hausen, Harald
; TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US//10/472,724
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patent version 3.2
; SEQ ID NO 4
; LENGTH: 111
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-472-724-4

Query Match 100.0%; Score 44; DB 4; Length 111;
Best Local Similarity 100.0%; Pred. No. 0.52;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLMGT 9
Db 83 TLEDLMGT 91

Search completed: May 5, 2006, 08:55:34
Job time : 67 sec6

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:51:51 ; Search time 9 Seconds
(without alignments)
46.285 Million cell updates/sec

Title: US-08-170-344-17

Perfect score: 44

Sequence: 1 TLRLDLMGT 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

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7: /SID55/ptcodata/1/pubppaa/US09_NEW_PUB.pep1.*
8: /SID55/ptcodata/1/pubppaa/US10_NEW_PUB.pep1.*
9: /SID55/ptcodata/1/pubppaa/US10_NEW_PUB.pep1.*
10: /SID55/ptcodata/1/pubppaa/US11_NEW_PUB.pep1.*
11: /SID55/ptcodata/1/pubppaa/US60_NEW_PUB.pep1.*
12: /SID55/ptcodata/1/pubppaa/US60_NEW_PUB.pep1.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match length	ID	Description
1	44	100.0	15 9 US-10-530-061-1713	Sequence 1713, Ap
2	44	100.0	98 8 US-10-511-814-8	Sequence 8, Appli
3	44	100.0	98 8 US-10-511-814-11	Sequence 11, Appli
4	44	100.0	98 9 US-10-530-253-14	Sequence 14, Appli
5	44	100.0	98 11 US-11-179-478-4	Sequence 4, Appli
6	44	100.0	248 9 US-10-530-253-1	Sequence 1, Appli
7	44	100.0	248 9 US-10-530-253-3	Sequence 3, Appli
8	44	100.0	248 9 US-10-530-253-5	Sequence 5, Appli
9	44	100.0	248 9 US-10-530-253-9	Sequence 9, Appli
10	44	100.0	248 9 US-10-530-253-11	Sequence 11, Appli
11	44	100.0	256 11 US-11-192-923A-2	Sequence 2, Appli
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36	32	72.7	495 11 US-11-264-096-302	Sequence 3006, Ap
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61	30	68.2	104 9 US-10-530-253-10	Sequence 40, Appli
62	30	68.2	111 9 US-10-467-657-7018	Sequence 7018, Ap
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138	63.6	339	11	US-11-096-568A-28931	Sequence 28931, A	211	61.4	334	11	US-11-129-143-43	Sequence 54, App1
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151	63.6	407	11	US-11-096-568A-14655	Sequence 14655, A	224	61.4	399	9	US-11-096-568A-32947	Sequence 32947, A
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243	27	61.4	433	11	US-11-188-298-8395	Sequence 8395, Ap	316	26	59.1	160	11	US-11-087-099-7391	Sequence 7391, Ap
244	27	61.4	433	11	US-11-188-298-11024	Sequence 11024, A	317	26	59.1	160	11	US-11-055-822-958	Sequence 958, App
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247	27	61.4	433	11	US-11-188-298-20148	Sequence 20148, A	320	26	59.1	220	11	US-11-096-568A-24361	Sequence 24361, A
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250	27	61.4	437	11	US-11-188-298-10027	Sequence 10027, A	323	26	59.1	239	9	US-10-467-657-5622	Sequence 5622, Ap
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252	27	61.4	446	11	US-11-079-463-8592	Sequence 8592, Ap	325	26	59.1	254	9	US-10-485-517-208	Sequence 208, App
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269	27	61.4	510	9	US-10-243-345-18	Sequence 18, App1	342	26	59.1	345	9	US-10-973-1158-286	Sequence 286, App
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271	27	61.4	510	9	US-10-245-083-18	Sequence 18, App1	344	26	59.1	345	9	US-10-942-042-72	Sequence 72, App1
272	27	61.4	510	9	US-10-247-015-18	Sequence 18, App1	345	26	59.1	345	9	US-10-216-651A-488	Sequence 488, App
273	27	61.4	524	9	US-10-793-626-3090	Sequence 3090, Ap	346	26	59.1	345	9	US-10-137-873A-286	Sequence 286, App
274	27	61.4	534	9	US-10-793-626-920	Sequence 920, App	347	26	59.1	345	9	US-10-152-370-286	Sequence 286, App
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278	27	61.4	608	11	US-11-079-463-7066	Sequence 7066, Ap	351	26	59.1	345	11	US-11-075-427-22	Sequence 22, App1
279	27	61.4	624	11	US-11-098-686-10714	Sequence 10714, A	352	26	59.1	345	11	US-11-072-175-193	Sequence 193, App
280	27	61.4	629	9	US-10-821-234-1528	Sequence 1528, Ap	353	26	59.1	345	11	US-11-075-047A-103	Sequence 103, App
281	27	61.4	658	11	US-11-079-463-6947	Sequence 6947, Ap	354	26	59.1	345	11	US-11-140-284-32	Sequence 32, App1
282	27	61.4	686	11	US-11-096-568A-31237	Sequence 31237, A	355	26	59.1	345	11	US-11-290-153-286	Sequence 286, App
283	27	61.4	691	11	US-11-098-686-10746	Sequence 10746, A	356	26	59.1	349	9	US-10-485-517-117	Sequence 417, App
284	27	61.4	698	9	US-10-506-454-70	Sequence 70, App1	357	26	59.1	352	11	US-11-096-568A-15571	Sequence 15571, A
285	27	61.4	706	11	US-11-096-568A-31236	Sequence 31236, A	358	26	59.1	353	11	US-11-045-004-2185	Sequence 2185, Ap
286	27	61.4	734	11	US-11-096-568A-31235	Sequence 31235, A	359	26	59.1	354	8	US-10-511-455-85	Sequence 65, App1
287	27	61.4	761	11	US-11-188-298-18066	Sequence 18066, A	360	26	59.1	358	9	US-10-467-657-6970	Sequence 6970, Ap
288	27	61.4	873	11	US-11-096-568A-28140	Sequence 28140, A	361	26	59.1	359	11	US-10-055-877-159	Sequence 159, App
289	27	61.4	886	9	US-10-821-234-1390	Sequence 1390, Ap	362	26	59.1	360	11	US-11-055-004-2063	Sequence 2063, Ap
290	27	61.4	1049	8	US-10-505-928-759	Sequence 759, App	363	26	59.1	363	11	US-11-079-463-9740	Sequence 9740, Ap
291	27	61.4	1263	11	US-11-087-099-7209	Sequence 7209, Ap	364	26	59.1	367	11	US-11-096-568A-11577	Sequence 11577, A
292	27	61.4	1268	11	US-11-188-298-9469	Sequence 9469, Ap	365	26	59.1	369	11	US-11-096-568A-20666	Sequence 20666, A
293	27	61.4	1294	11	US-11-188-298-9622	Sequence 9622, Ap	366	26	59.1	375	11	US-11-098-298-4639	Sequence 4639, Ap
294	27	61.4	1565	11	US-11-188-298-7537	Sequence 7537, Ap	367	26	59.1	375	11	US-11-188-298-20720	Sequence 20720, A
295	26.5	60.2	261	9	US-10-878-556A-180	Sequence 180, App	368	26	59.1	378	11	US-11-172-404-1335	Sequence 1335, Ap
296	26.5	60.2	501	11	US-11-045-004-1802	Sequence 1802, Ap	369	26	59.1	379	7	US-09-978-360A-506	Sequence 506, App
297	26	59.1	16	9	US-10-498-026-12	Sequence 12, App1	370	26	59.1	380	11	US-11-096-568A-11576	Sequence 11576, A
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301	26	59.1	78	11	US-11-079-463-8039	Sequence 8039, Ap	374	26	59.1	391	11	US-11-108-189-119	Sequence 119, App
302	26	59.1	81	11	US-11-096-568A-21137	Sequence 21137, A	375	26	59.1	391	11	US-11-108-389-121	Sequence 123, App
303	26	59.1	98	9	US-10-928-446A-140	Sequence 140, App	376	26	59.1	391	11	US-11-108-189-123	Sequence 119, App
304	26	59.1	105	11	US-11-000-443-818	Sequence 140, App	377	26	59.1	391	11	US-11-224-624-121	Sequence 123, App
305	26	59.1	108	11	US-11-096-568A-21135	Sequence 21135, A	378	26	59.1	391	11	US-11-224-624-123	Sequence 123, App
306	26	59.1	109	11	US-10-498-026-26	Sequence 26, App1	379	26	59.1	391	11	US-11-087-099-11242	Sequence 11242, A
307	26	59.1	109	9	US-11-033-039-136	Sequence 136, App	380	26	59.1	391	11	US-11-188-298-21372	Sequence 21372, A
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310	26	59.1	129	11	US-11-096-568A-25158	Sequence 25158, A	383	26	59.1	402	11	US-11-018-868-43	Sequence 43, App1
311	26	59.1	133	9	US-11-098-686-10330	Sequence 10330, A	384	26	59.1	408	11	US-11-232-405A-36	Sequence 36, App1
312	26	59.1	139	9	US-10-793-626-2992	Sequence 2992, Ap	385	26	59.1	408	11	US-11-232-405A-36	Sequence 36, App1
313	26	59.1	154	11	US-11-188-298-2288	Sequence 2288, Ap	386	26	59.1	408	11	US-11-096-568A-229402	Sequence 229402, A

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388	26	59.1	416	11	US-11-188-298-7491	Sequence 7491, Ap	461	25.5	58.0	316	11	US-11-188-298-16788	Sequence 16788, A
389	26	59.1	417	11	US-11-188-298-5561	Sequence 5561, Ap	462	25.5	58.0	341	11	US-11-188-298-6689	Sequence 6689, Ap
390	26	59.1	419	11	US-11-288-493-38	Sequence 38, Appl	463	25.5	58.0	341	11	US-11-188-298-12534	Sequence 12534, A
391	26	59.1	421	11	US-11-096-568A-23947	Sequence 23947, A	464	25.5	58.0	356	11	US-11-126-344-3	Sequence 3, Appl
392	26	59.1	424	11	US-11-188-298-5330	Sequence 5330, Ap	465	25	56.8	15	9	US-10-530-061-1733	Sequence 1733, Ap
393	26	59.1	426	11	US-11-096-568A-29401	Sequence 29401, A	466	25	56.8	87	11	US-11-188-298-17445	Sequence 17445, A
394	26	59.1	429	11	US-11-188-298-2336	Sequence 2336, Ap	467	25	56.8	88	11	US-11-004-399-2744	Sequence 2744, Ap
395	26	59.1	433	11	US-11-146-428-76	Sequence 76, Appl	468	25	56.8	90	11	US-11-188-298-16231	Sequence 16231, A
396	26	59.1	437	11	US-11-096-568A-11575	Sequence 11575, A	469	25	56.8	102	11	US-11-188-298-11869	Sequence 11869, A
397	26	59.1	443	11	US-11-188-298-15190	Sequence 15190, A	470	25	56.8	103	11	US-11-188-298-21516	Sequence 21516, A
398	26	59.1	452	11	US-11-045-004-445	Sequence 445, App	471	25	56.8	105	11	US-11-264-096-2262	Sequence 2262, Ap
399	26	59.1	453	9	US-10-467-657-206	Sequence 206, App	472	25	56.8	107	11	US-11-188-298-7438	Sequence 7438, Ap
400	26	59.1	453	9	US-10-467-657-3626	Sequence 3626, Ap	473	25	56.8	115	11	US-11-194-830-4	Sequence 4, Appl
401	26	59.1	453	9	US-10-467-657-6400	Sequence 6400, A	474	25	56.8	117	11	US-11-188-298-2401	Sequence 2401, Ap
402	26	59.1	454	11	US-11-096-568A-31074	Sequence 31074, A	475	25	56.8	118	9	US-10-467-657-4296	Sequence 4296, Ap
403	26	59.1	455	11	US-11-072-512-3818	Sequence 3818, Ap	476	25	56.8	119	11	US-11-188-298-2447	Sequence 2447, Ap
404	26	59.1	461	11	US-11-188-298-11399	Sequence 11399, A	477	25	56.8	123	9	US-10-131-826A-402	Sequence 402, App
405	26	59.1	468	9	US-10-467-657-2274	Sequence 2274, Ap	478	25	56.8	123	9	US-10-973-115B-402	Sequence 402, App
406	26	59.1	473	11	US-11-096-568A-28682	Sequence 28682, Ap	479	25	56.8	123	9	US-10-137-873A-402	Sequence 402, App
407	26	59.1	473	11	US-11-096-568A-31073	Sequence 31073, A	480	25	56.8	123	9	US-10-152-370-402	Sequence 402, App
408	26	59.1	477	9	US-10-784-004-643	Sequence 643, App	481	25	56.8	123	11	US-11-290-153-402	Sequence 402, App
409	26	59.1	477	9	US-10-784-004-693	Sequence 693, App	482	25	56.8	124	11	US-11-031-206-8	Sequence 8, Appl
410	26	59.1	477	9	US-10-784-004-1047	Sequence 1047, Ap	483	25	56.8	127	11	US-11-019-711-54	Sequence 54, Appl
411	26	59.1	477	9	US-10-784-004-1075	Sequence 1075, Ap	484	25	56.8	130	11	US-11-188-298-61193	Sequence 61193, Ap
412	26	59.1	480	11	US-11-172-740-2309	Sequence 2309, Ap	485	25	56.8	131	11	US-11-188-298-51115	Sequence 51115, A
413	26	59.1	483	9	US-10-934-944-156	Sequence 156, App	486	25	56.8	135	11	US-11-188-298-15998	Sequence 15998, A
414	26	59.1	483	9	US-11-116-881A-165	Sequence 165, App	487	25	56.8	137	11	US-11-045-004-1233	Sequence 1233, Ap
415	26	59.1	519	11	US-11-188-298-7379	Sequence 7379, A	488	25	56.8	140	11	US-11-045-004-1658	Sequence 1658, Ap
416	26	59.1	519	11	US-11-188-298-10418	Sequence 10418, A	489	25	56.8	141	9	US-10-714-887-76	Sequence 76, Appl
417	26	59.1	550	9	US-10-091-342-2	Sequence 2, Appl	490	25	56.8	144	11	US-11-188-298-17948	Sequence 17948, A
418	26	59.1	551	11	US-11-000-463-346	Sequence 346, App	491	25	56.8	145	9	US-10-703-799B-94	Sequence 94, Appl
419	26	59.1	553	11	US-11-188-298-13417	Sequence 13417, A	492	25	56.8	147	9	US-10-467-657-7446	Sequence 7446, Ap
420	26	59.1	570	11	US-11-096-568A-28681	Sequence 28681, A	493	25	56.8	149	11	US-11-096-568A-2259	Sequence 2259, Ap
421	26	59.1	570	11	US-11-096-568A-31072	Sequence 31072, A	494	25	56.8	159	11	US-11-188-298-1124	Sequence 1124, Ap
422	26	59.1	584	9	US-10-793-626-2832	Sequence 2832, App	495	25	56.8	150	11	US-11-188-298-13436	Sequence 13436, A
423	26	59.1	589	11	US-11-096-568A-28680	Sequence 28680, A	496	25	56.8	152	11	US-11-188-298-19396	Sequence 19396, A
424	26	59.1	600	8	US-10-370-959-155	Sequence 155, App	497	25	56.8	155	9	US-10-793-626-308	Sequence 308, App
425	26	59.1	638	9	US-10-506-454-536	Sequence 536, App	498	25	56.8	155	11	US-11-045-004-779	Sequence 779, App
426	26	59.1	655	9	US-10-517-310-2	Sequence 2, Appl	499	25	56.8	156	11	US-11-188-298-18341	Sequence 18341, Ap
427	26	59.1	655	11	US-11-184-860-1	Sequence 1, Appl	500	25	56.8	157	11	US-11-096-568A-30459	Sequence 30459, A
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429	26	59.1	655	11	US-11-124-368A-297	Sequence 297, App	502	25	56.8	159	11	US-11-188-298-5836	Sequence 5836, Ap
430	26	59.1	660	11	US-11-188-298-4604	Sequence 4604, Ap	503	25	56.8	160	11	US-11-096-568A-7877	Sequence 7877, Ap
431	26	59.1	660	11	US-11-188-298-4799	Sequence 4799, Ap	504	25	56.8	160	11	US-11-188-298-8822	Sequence 8822, Ap
432	26	59.1	661	11	US-11-019-711-107	Sequence 107, App	505	25	56.8	168	11	US-11-188-298-21771	Sequence 21771, A
433	26	59.1	667	9	US-10-506-454-135	Sequence 135, App	506	25	56.8	169	11	US-11-188-298-11568	Sequence 11568, A
434	26	59.1	719	9	US-10-511-538-247	Sequence 247, App	507	25	56.8	172	11	US-11-188-298-4488	Sequence 4488, Ap
435	26	59.1	748	11	US-11-098-686-10863	Sequence 10863, A	508	25	56.8	172	11	US-11-188-298-7142	Sequence 7142, Ap
436	26	59.1	754	11	US-11-188-298-17153	Sequence 17153, A	509	25	56.8	175	11	US-11-072-512-3905	Sequence 3905, Ap
437	26	59.1	799	8	US-10-511-455-62	Sequence 62, Appl	510	25	56.8	175	11	US-11-188-298-2331	Sequence 2331, Ap
438	26	59.1	837	11	US-11-045-004-1433	Sequence 1433, Ap	511	25	56.8	175	11	US-11-188-298-3706	Sequence 3706, Ap
439	26	59.1	980	11	US-11-064-246-10	Sequence 10, Appl	512	25	56.8	175	11	US-11-188-298-5136	Sequence 5136, Ap
440	26	59.1	980	11	US-11-169-041-141	Sequence 141, App	513	25	56.8	175	11	US-11-188-298-5441	Sequence 5441, Ap
441	26	59.1	1015	11	US-11-096-568A-29140	Sequence 29140, A	514	25	56.8	175	11	US-11-188-298-5764	Sequence 5764, Ap
442	26	59.1	1021	11	US-11-188-298-12108	Sequence 12108, A	515	25	56.8	175	11	US-11-188-298-5817	Sequence 5817, Ap
443	26	59.1	1036	11	US-11-188-298-12108	Sequence 12108, A	516	25	56.8	175	11	US-11-188-298-8692	Sequence 8692, Ap
444	26	59.1	1046	11	US-11-120-308-186	Sequence 186, App	517	25	56.8	175	11	US-11-188-298-9218	Sequence 9218, Ap
445	26	59.1	1218	11	US-11-052-554A-123	Sequence 123, App	518	25	56.8	175	11	US-11-188-298-9484	Sequence 9484, Ap
446	26	59.1	1331	11	US-11-096-568A-33412	Sequence 33412, A	519	25	56.8	175	11	US-11-188-298-11304	Sequence 11304, A
447	26	59.1	1394	11	US-11-096-568A-33411	Sequence 33411, A	520	25	56.8	175	11	US-11-188-298-12583	Sequence 12583, A
448	26	59.1	1482	11	US-11-096-568A-33410	Sequence 33410, A	521	25	56.8	175	11	US-11-188-298-13613	Sequence 13613, A
449	26	59.1	1575	8	US-10-505-928-257	Sequence 257, App	522	25	56.8	175	11	US-11-188-298-18593	Sequence 18593, A
450	26	59.1	1575	8	US-10-501-035-228	Sequence 228, App	523	25	56.8	175	11	US-11-188-298-18903	Sequence 18903, A
451	26	59.1	1644	9	US-10-821-234-903	Sequence 903, App	524	25	56.8	175	11	US-11-188-298-19137	Sequence 19137, A
452	26	59.1	1705	11	US-11-143-984A-37	Sequence 37, Appl	525	25	56.8	175	11	US-11-188-298-12095	Sequence 12095, A
453	26	59.1	3353	11	US-11-037-243-64	Sequence 64, Appl	526	25	56.8	178	11	US-11-188-298-9280	Sequence 9280, Ap
454	26	59.1	3580	9	US-10-510-941-14	Sequence 14, Appl	527	25	56.8	182	11	US-11-188-298-9580	Sequence 9580, Ap
455	25.5	58.0	150	11	US-11-188-298-10053	Sequence 10053, A	528	25	56.8	184	11	US-11-188-298-7454	Sequence 7454, Ap
456	25.5	58.0	170	11	US-11-188-298-17440	Sequence 17440, A	529	25	56.8	186	11	US-11-096-568A-7876	Sequence 7876, Ap
457	25.5	58.0	224	11	US-11-188-298-1379	Sequence 1379, Ap	530	25	56.8	189	11	US-11-188-298-8073	Sequence 8073, Ap
458	25.5	58.0	231	11	US-11-188-298-19496	Sequence 19496, A	531	25	56.8	198	11	US-11-087-099-12220	Sequence 12220, A
459	25.5	58.0	242	11	US-11-188-298-1552	Sequence 1552, Ap	532	25	56.8	199	11	US-11-087-099-4794	Sequence 4794, Ap

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535	25	56.8	201	11	US-11-096-568A-2258	Sequence 2258, Ap	608	25	56.8	325	9	US-10-195-883-174	Sequence 174, App
536	25	56.8	202	11	US-11-172-740-622	Sequence 622, App	609	25	56.8	335	9	US-10-195-888-174	Sequence 174, App
537	25	56.8	204	11	US-11-087-099-12123	Sequence 12123, A	610	25	56.8	335	9	US-10-195-889-174	Sequence 174, App
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541	25	56.8	212	9	US-10-514-038-8	Sequence 8, App1	614	25	56.8	339	11	US-11-188-298-5693	Sequence 5939, Ap
542	25	56.8	212	11	US-11-172-740-2389	Sequence 2389, Ap	615	25	56.8	340	11	US-11-188-298-5693	Sequence 5939, Ap
543	25	56.8	216	11	US-11-188-298-14986	Sequence 14986, A	616	25	56.8	341	11	US-11-188-298-1300	Sequence 1300, Ap
544	25	56.8	224	9	US-10-857-780-25	Sequence 25, App1	617	25	56.8	341	11	US-11-188-298-18931	Sequence 18931, A
545	25	56.8	227	11	US-11-124-367A-348	Sequence 348, App	618	25	56.8	341	11	US-11-188-298-18931	Sequence 18931, A
546	25	56.8	229	11	US-11-096-568A-11753	Sequence 11753, A	619	25	56.8	342	11	US-11-098-688-10807	Sequence 9252, Ap
547	25	56.8	235	11	US-11-096-568A-12943	Sequence 12943, A	620	25	56.8	342	11	US-11-188-298-9252	Sequence 3793, Ap
548	25	56.8	235	11	US-11-045-004-1829	Sequence 1829, Ap	621	25	56.8	342	11	US-11-188-298-14396	Sequence 14396, A
549	25	56.8	236	7	US-09-978-360A-568	Sequence 568, App	622	25	56.8	343	11	US-11-045-004-215	Sequence 215, App
550	25	56.8	243	11	US-11-082-389-268	Sequence 268, App	623	25	56.8	344	11	US-11-188-298-1842	Sequence 1842, Ap
551	25	56.8	243	11	US-11-082-389-270	Sequence 270, App	624	25	56.8	344	11	US-11-188-298-15693	Sequence 15693, A
552	25	56.8	255	11	US-11-140-284-40	Sequence 40, App1	625	25	56.8	344	11	US-11-188-298-16784	Sequence 16784, A
553	25	56.8	255	11	US-11-096-568A-4394	Sequence 4394, Ap	626	25	56.8	349	11	US-11-188-298-7096	Sequence 7096, Ap
554	25	56.8	257	11	US-11-096-568A-2257	Sequence 2257, Ap	627	25	56.8	351	11	US-11-188-298-18372	Sequence 18372, A
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556	25	56.8	261	11	US-11-096-568A-10852	Sequence 10852, A	629	25	56.8	352	11	US-11-188-298-996	Sequence 996, App
557	25	56.8	262	11	US-11-172-740-2394	Sequence 2394, Ap	630	25	56.8	353	11	US-11-096-568A-22249	Sequence 29249, A
558	25	56.8	263	11	US-11-188-298-19813	Sequence 19813, A	631	25	56.8	353	11	US-11-188-298-814	Sequence 814, App
559	25	56.8	265	11	US-11-079-463-5506	Sequence 5506, Ap	632	25	56.8	359	11	US-11-172-740-2333	Sequence 24299, A
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562	25	56.8	268	11	US-11-096-568A-22646	Sequence 22646, A	635	25	56.8	364	9	US-10-131-826A-186	Sequence 186, App
563	25	56.8	269	9	US-10-506-454-218	Sequence 218, App	636	25	56.8	364	9	US-10-973-115B-186	Sequence 186, App
564	25	56.8	276	11	US-11-096-568A-16470	Sequence 16470, A	637	25	56.8	364	9	US-10-137-873A-186	Sequence 186, App
565	25	56.8	278	11	US-11-172-740-2395	Sequence 2395, Ap	638	25	56.8	364	9	US-10-152-370-186	Sequence 186, App
566	25	56.8	281	9	US-10-467-657-988	Sequence 988, App	639	25	56.8	364	11	US-11-140-284-38	Sequence 38, App1
567	25	56.8	282	11	US-11-188-298-21070	Sequence 21070, A	640	25	56.8	364	11	US-11-290-153-186	Sequence 186, App
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572	25	56.8	286	11	US-11-045-004-1935	Sequence 1935, Ap	645	25	56.8	370	11	US-11-140-284-36	Sequence 36, App1
573	25	56.8	289	11	US-11-096-568A-1117	Sequence 1117, Ap	646	25	56.8	370	11	US-11-264-096-1481	Sequence 1481, Ap
574	25	56.8	291	11	US-11-156-084-357	Sequence 357, App	647	25	56.8	370	11	US-11-264-096-1481	Sequence 1482, Ap
575	25	56.8	292	11	US-11-188-298-21162	Sequence 21162, A	648	25	56.8	370	11	US-11-264-096-1481	Sequence 1482, Ap
576	25	56.8	292	11	US-11-045-004-982	Sequence 982, App	649	25	56.8	374	9	US-10-517-939-74	Sequence 939, A
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578	25	56.8	294	11	US-11-098-686-11075	Sequence 11075, A	651	25	56.8	380	11	US-11-087-099-9801	Sequence 9801, Ap
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584	25	56.8	303	11	US-11-096-568A-18848	Sequence 18848, A	657	25	56.8	386	9	US-10-973-115B-340	Sequence 340, App
585	25	56.8	303	11	US-11-096-568A-16469	Sequence 16469, A	658	25	56.8	386	9	US-10-137-873A-340	Sequence 340, App
586	25	56.8	305	11	US-11-096-568A-11752	Sequence 11752, A	659	25	56.8	386	9	US-10-152-370-340	Sequence 340, App
587	25	56.8	306	11	US-11-188-298-9242	Sequence 9242, Ap	660	25	56.8	386	11	US-11-185-878-2	Sequence 2, App1
588	25	56.8	309	11	US-11-096-568A-1116	Sequence 1116, Ap	661	25	56.8	386	11	US-11-099-135-1	Sequence 1, App1
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591	25	56.8	312	11	US-11-188-298-17323	Sequence 17323, A	664	25	56.8	389	11	US-11-087-099-9660	Sequence 9660, Ap
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599	25	56.8	325	11	US-11-098-686-10395	Sequence 10395, A	672	25	56.8	407	11	US-11-087-099-9438	Sequence 9438, Ap
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603	25	56.8	330	9	US-11-188-298-4133	Sequence 4133, Ap	676	25	56.8	417	9	US-10-915-002-445	Sequence 345, App
604	25	56.8	332	11	US-10-501-035-323	Sequence 323, App	677	25	56.8	417	9	US-10-915-002-445	Sequence 352, App
605	25	56.8	333	11	US-11-096-568A-18846	Sequence 18846, A	678	25	56.8	417	9	US-10-915-002-352	Sequence 352, App

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685	25	56.8	428	11	US-11-096-568A-32525	Sequence 32525, A	758	25	56.8	610	11	US-11-194-246-312	Sequence 312, App
686	25	56.8	429	11	US-11-188-298-10530	Sequence 10530, A	759	25	56.8	617	11	US-11-188-298-19346	Sequence 19346, A
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706	25	56.8	460	11	US-11-188-298-13823	Sequence 13823, A	779	25	56.8	756	9	US-10-956-026-13	Sequence 13, Appl
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708	25	56.8	465	11	US-11-156-084-101	Sequence 101, App	781	25	56.8	766	11	US-11-144-985-9	Sequence 9, Appl1
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714	25	56.8	481	11	US-11-188-298-14796	Sequence 14796, A	787	25	56.8	797	11	US-11-045-004-396	Sequence 396, App
715	25	56.8	483	11	US-11-031-206-126	Sequence 126, App	788	25	56.8	812	11	US-11-079-463-6485	Sequence 6485, Ap
716	25	56.8	484	9	US-10-784-004-322	Sequence 322, App	789	25	56.8	832	11	US-11-067-260-4	Sequence 4, Appl1
717	25	56.8	484	9	US-10-784-004-372	Sequence 372, App	790	25	56.8	858	9	US-10-995-561-854	Sequence 854, App
718	25	56.8	484	9	US-10-784-004-906	Sequence 906, App	791	25	56.8	875	11	US-11-188-298-8045	Sequence 8045, Ap
719	25	56.8	485	11	US-10-784-004-930	Sequence 930, App	792	25	56.8	892	11	US-11-237-600-4	Sequence 4, Appl1
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727	25	56.8	493	11	US-11-096-568A-10195	Sequence 10195, A	800	25	56.8	1035	8	US-10-505-928-83	Sequence 83, Appl
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729	25	56.8	496	9	US-10-770-726-72	Sequence 72, Appl	802	25	56.8	1050	8	US-10-505-928-347	Sequence 347, App
730	25	56.8	497	9	US-10-984-376-3	Sequence 3, Appl1	803	25	56.8	1050	9	US-10-523-477-12	Sequence 12, Appl
731	25	56.8	499	9	US-10-793-626-1484	Sequence 1484, Ap	804	25	56.8	1050	9	US-10-770-726-47	Sequence 47, Appl
732	25	56.8	506	9	US-10-467-657-2434	Sequence 2434, Ap	805	25	56.8	1065	11	US-11-191-375-16	Sequence 16, Appl
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739	25	56.8	519	9	US-10-137-873A-210	Sequence 210, App	812	25	56.8	1069	11	US-11-191-375-17	Sequence 17, Appl
740	25	56.8	519	9	US-10-152-370-210	Sequence 210, App	813	25	56.8	1069	11	US-11-191-375-17	Sequence 17, Appl
741	25	56.8	519	11	US-11-290-153-210	Sequence 210, App	814	25	56.8	1071	9	US-10-467-657-1654	Sequence 1654, Ap
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748	25	56.8	548	11	US-11-045-004-1058	Sequence 1058, Ap	821	25	56.8	1153	11	US-11-096-568A-31530	Sequence 31530, A
749	25	56.8	548	11	US-11-096-568A-19364	Sequence 19364, Ap	822	25	56.8	1178	9	US-10-995-561-851	Sequence 851, App
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833	25	56.8	1704	11	US-11-075-046-40	Sequence 40, Appl	906	24	54.5	198	11	US-11-096-568A-1742	Sequence 1742, Ap
834	25	56.8	1711	11	US-11-143-984A-38	Sequence 38, Appl	907	24	54.5	198	11	US-11-045-004-82	Sequence 82, Appl
835	25	56.8	1809	8	US-10-370-959-67	Sequence 67, Appl	908	24	54.5	200	11	US-11-055-822-732	Sequence 732, Appl
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845	24	54.5	28	11	US-11-129-741-2901	Sequence 2901, Ap	918	24	54.5	219	11	US-11-040-596-14	Sequence 14, Appl
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ALIGNMENTS

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RESULT 1
US-10-530-061-1713
; Sequence 1713, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1713
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1713
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Best Local Similarity 100.0%; Pred. No. 0.0055;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 3 TLEDLMGT 11
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RESULT 2
US-10-511-814-8
; Sequence 8, Application US/10511814
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; Publication No. US20060088472A1
; GENERAL INFORMATION:
; APPLICANT: McCance, Dennis
; APPLICANT: Westbrock, III, Thomas F.
; TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
; FILE REFERENCE: 21108.0016U2
; CURRENT APPLICATION NUMBER: US/10/511,814
; CURRENT FILING DATE: 2004-10-19
; PRIOR APPLICATION NUMBER: PCT/US03/12667
; PRIOR FILING DATE: 2003-04-21
; PRIOR APPLICATION NUMBER: 60/374,245
; PRIOR FILING DATE: 2002-04-19
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
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; OTHER INFORMATION: Synthetic Construct
US-10-511-814-8
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Best Local Similarity 100.0%; Pred. No. 0.045;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 TLEDLMGT 9
Db 78 TLEDLMGT 86
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RESULT 3
US-10-511-814-11
; Sequence 11, Application US/10511814
; Publication No. US20060088472A1
; GENERAL INFORMATION:
; APPLICANT: McCance, Dennis
; APPLICANT: Westbrock, III, Thomas F.
; TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
; FILE REFERENCE: 21108.0016U2
; CURRENT APPLICATION NUMBER: US/10/511,814
; CURRENT FILING DATE: 2004-10-19
; PRIOR APPLICATION NUMBER: PCT/US03/12667
; PRIOR FILING DATE: 2003-04-21
; PRIOR APPLICATION NUMBER: 60/374,245
; PRIOR FILING DATE: 2002-04-19
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 98
; TYPE: PRT
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; OTHER INFORMATION: Description of Artificial Sequence:/Note =
; OTHER INFORMATION: Synthetic Construct
US-10-511-814-11
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Query Match 100.0%; Score 44; DB 8; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.045;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 TLEDLMGT 9
Db 78 TLEDLMGT 86
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RESULT 4
US-10-530-253-14
; Sequence 14, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
```

APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
PRIOR FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 14
LENGTH: 98
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-530-253-14

Query Match 100.0%; Score 44; DB 9; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.045;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLMGT 9
Db 78 TLEDLMGT 86

RESULT 5
US-11-179-478-4

Sequence 4, Application US/11179478
Publication No. US20050249745A1
GENERAL INFORMATION:

APPLICANT: BURGER, Alexander
APPLICANT: HALISK, Michael
TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
TITLE OF INVENTION: FORMULATIONS AND METHODS OF USE
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/11/179,478
FILING DATE: 13-JULY-2005

CLASSIFICATION:

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/10/654,129
FILING DATE: 04-Sep-2003

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:
NAME: Sandercok, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear

MOLECULE TYPE: protein
US-11-179-478-4

Query Match 100.0%; Score 44; DB 11; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.045;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLMGT 9
Db 78 TLEDLMGT 86

RESULT 6
US-10-530-253-1

Sequence 1, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:

APPLICANT: Cassetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 1
LENGTH: 248
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-530-253-1

Query Match 100.0%; Score 44; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLMGT 9
Db 228 TLEDLMGT 236

RESULT 7
US-10-530-253-3

Sequence 3, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:

APPLICANT: Cassetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 3
LENGTH: 248
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-530-253-3

Query Match 100.0%; Score 44; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLEDLMGT 9

Db 228 TLEDLMGT 236

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RESULT 8
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
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US-10-530-253-5
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Query Match 100.0%; Score 44; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.13; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;

QY 1 TLEDLMGT 9

Db 228 TLEDLMGT 236

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RESULT 9
US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
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; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-7
```

Query Match 100.0%; Score 44; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.13; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;

QY 1 TLEDLMGT 9

Db 78 TLEDLMGT 86

RESULT 10

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US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-9
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Query Match 100.0%; Score 44; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.13; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;

QY 1 TLEDLMGT 9

Db 78 TLEDLMGT 86

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RESULT 11
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-11
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Query Match 100.0%; Score 44; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.13; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;

QY 1 TLEDLMGT 9

Db 78 TLEDLMGT 86

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RESULT 12
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
; APPLICANT: PANG, XIAOWU
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/ TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
/ FILE REFERENCE: 116620-003
/ CURRENT APPLICATION NUMBER: US/11/192,923A
/ PRIOR FILING DATE: 2005-07-29
/ PRIOR APPLICATION NUMBER: CN 03115272.4
/ PRIOR FILING DATE: 2003-01-30
/ PRIOR APPLICATION NUMBER: CN 03115273.2
/ NUMBER OF SEQ ID NOS: 45
/ SOFTWARE: PatentIn Ver. 3.3
/ SEQ ID NO 2
/ LENGTH: 256
/ TYPE: PRT
/ ORGANISM: Human papillomavirus
US-11-192-923A-2

Query Match      100.0%; Score 44; DB 11; Length 256;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LEDLDMGT 9
Db 78 LEDLDMGT 86

RESULT 13
US-10-530-061-1714
/ Sequence 1714, Application US/10530061
/ Publication No. US20060079453A1
/ GENERAL INFORMATION:
/ APPLICANT: SIDNEY, JOHN
/ APPLICANT: SOUTHWOOD, SCOTT
/ APPLICANT: SETTE, ALESSANDRO
/ TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
/ FILE REFERENCE: 2060.033US02/EKS/M-M
/ CURRENT APPLICATION NUMBER: US/10/530.061
/ PRIOR FILING DATE: 2005-04-04
/ PRIOR APPLICATION NUMBER: PCT/US03/31308
/ PRIOR FILING DATE: 2003-10-03
/ PRIOR APPLICATION NUMBER: 60/416,207
/ PRIOR FILING DATE: 2002-10-03
/ PRIOR APPLICATION NUMBER: 60/417,269
/ PRIOR FILING DATE: 2002-10-08
/ NUMBER OF SEQ ID NOS: 2503
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 1714
/ LENGTH: 15
/ TYPE: PRT
/ ORGANISM: Human papillomavirus
US-10-530-061-1714

Query Match      88.6%; Score 39; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.059;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 LEDLDMGT 9
Db 1 LEDLDMGT 8

RESULT 14
US-10-530-253-30
/ Sequence 30, Application US/10530253
/ Publication No. US20060014926A1
/ GENERAL INFORMATION:
/ APPLICANT: Casasetti, Maria C.
/ APPLICANT: Smith, Larry
/ APPLICANT: Jeffrey K. Pullen
/ APPLICANT: Susan P. McElhinney
/ TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
/ FILE REFERENCE: 00630/100M137-US2
/ CURRENT APPLICATION NUMBER: US/10/530,253
```

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/ CURRENT FILING DATE: 2005-04-04
/ PRIOR APPLICATION NUMBER: PCT/US2003/031726
/ PRIOR FILING DATE: 2003-10-02
/ PRIOR APPLICATION NUMBER: US 60/415,929
/ PRIOR FILING DATE: 2002-10-03
/ NUMBER OF SEQ ID NOS: 65
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 30
/ LENGTH: 99
/ TYPE: PRT
/ ORGANISM: Human papillomavirus type 35
US-10-530-253-30

Query Match      88.6%; Score 39; DB 9; Length 99;
Best Local Similarity 100.0%; Pred. No. 0.49;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 LEDLDMGT 9
Db 80 LEDLDMGT 87

RESULT 15
US-10-530-061-1747
/ Sequence 1747, Application US/10530061
/ Publication No. US20060079453A1
/ GENERAL INFORMATION:
/ APPLICANT: SIDNEY, JOHN
/ APPLICANT: SOUTHWOOD, SCOTT
/ APPLICANT: SETTE, ALESSANDRO
/ TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
/ FILE REFERENCE: 2060.033US02/EKS/M-M
/ CURRENT APPLICATION NUMBER: US/10/530.061
/ PRIOR FILING DATE: 2005-04-04
/ PRIOR APPLICATION NUMBER: PCT/US03/31308
/ PRIOR FILING DATE: 2003-10-03
/ PRIOR APPLICATION NUMBER: 60/416,207
/ PRIOR FILING DATE: 2002-10-03
/ PRIOR APPLICATION NUMBER: 60/417,269
/ PRIOR FILING DATE: 2002-10-08
/ NUMBER OF SEQ ID NOS: 2503
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 1747
/ LENGTH: 15
/ TYPE: PRT
/ ORGANISM: Human papillomavirus
US-10-530-061-1747

Query Match      79.5%; Score 35; DB 9; Length 15;
Best Local Similarity 77.8%; Pred. No. 0.4;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LEDLDMGT 9
Db 3 LEDLDMGT 11

RESULT 16
US-10-530-253-36
/ Sequence 36, Application US/10530253
/ Publication No. US20060014926A1
/ GENERAL INFORMATION:
/ APPLICANT: Casasetti, Maria C.
/ APPLICANT: Smith, Larry
/ APPLICANT: Jeffrey K. Pullen
/ APPLICANT: Susan P. McElhinney
/ TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
/ FILE REFERENCE: 00630/100M137-US2
/ CURRENT APPLICATION NUMBER: US/10/530,253
/ PRIOR FILING DATE: 2005-04-04
/ PRIOR APPLICATION NUMBER: PCT/US2003/031726
/ PRIOR FILING DATE: 2003-10-02
/ PRIOR APPLICATION NUMBER: US 60/415,929
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;; PRIOR FILING DATE: 2002-10-03
;; NUMBER OF SEQ ID NOS: 65
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 36
;; LENGTH: 98
;; TYPE: PRT
;; ORGANISM: Human papillomavirus type 58
US-10-530-253-36

Query Match 79.5%; Score 35; DB 9; Length 98;
Best Local Similarity 77.8%; Pred. No. 3.3;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLEDLMGT 9
Db 79 TIOQLMGT 87

RESULT 17
US-10-530-061-1725
; Sequence 1725, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR FILING DATE: 2002-10-08
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1725
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1725

Query Match 75.0%; Score 33; DB 9; Length 15;
Best Local Similarity 66.7%; Pred. No. 1;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLEDLMGT 9
Db 3 TIOQLMGT 11

RESULT 18
US-10-530-253-29
; Sequence 29, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 29

;; LENGTH: 97
;; TYPE: PRT
;; ORGANISM: Human papillomavirus type 33
US-10-530-253-29

Query Match 75.0%; Score 33; DB 9; Length 97;
Best Local Similarity 66.7%; Pred. No. 8.3;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLEDLMGT 9
Db 78 TIOQLMGT 86

RESULT 19
US-11-091-668-8
; Sequence 8, Application US/11091668
; Publication No. US20050262585A1
; GENERAL INFORMATION:
; APPLICANT: University of Nebraska
; APPLICANT: Mackenzie, Sally Ann
; APPLICANT: Vaghchiplawala, Zarir Erach
; TITLE OF INVENTION: Soybean FGAM Synthase Promoters Useful in Parasite Control
; FILE REFERENCE: 1231-221
; CURRENT APPLICATION NUMBER: US/11/091,668
; PRIOR FILING DATE: 2005-03-28
; PRIOR APPLICATION NUMBER: 60556745
; PRIOR FILING DATE: 2004-03-26
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 8
; LENGTH: 60
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-11-091-668-8

Query Match 72.7%; Score 32; DB 11; Length 60;
Best Local Similarity 66.7%; Pred. No. 7.8;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 TLEDLMGT 9
Db 25 TMSDLQGT 33

RESULT 20
US-10-853-807A-57
; Sequence 57, Application US/10853807A
; Publication No. US20060034860A1
; GENERAL INFORMATION:
; APPLICANT: Hydrigenics
; TITLE OF INVENTION: Protein-protein interactions in Human Immunodeficiency Virus
; FILE REFERENCE: B5055AA
; CURRENT APPLICATION NUMBER: US/10/853,807A
; PRIOR FILING DATE: 2004-05-26
; PRIOR APPLICATION NUMBER: US 60/333,346
; PRIOR FILING DATE: 2001-11-26
; PRIOR APPLICATION NUMBER: US 60/385,132
; PRIOR FILING DATE: 2002-05-31
; PRIOR APPLICATION NUMBER: PCT/EP 02/13868
; PRIOR FILING DATE: 2002-11-26
; NUMBER OF SEQ ID NOS: 132
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 57
; LENGTH: 194
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Translation of SEQ ID NO34
US-10-853-807A-57

Query Match 72.7%; Score 32; DB 9; Length 194;
Best Local Similarity 75.0%; Pred. No. 29;

Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
Qy 2 LEDL1MGT 9
|:|||||
Db 52 LKDLVWGT 59

RESULT 21
US-11-022-289-12
; Sequence 12, Application US/11022289
; Publication No. US2005024972A1
; GENERAL INFORMATION:
; APPLICANT: Lazari, Gregory Alan
; TITLE OF INVENTION: FC POLYPEPTIDES WITH NOVEL FC LIGAND BINDING SITES
; FILE REFERENCE: 185831/US/2
; CURRENT APPLICATION NUMBER: US/11/022,289
; CURRENT FILING DATE: 2004-12-21
; PRIOR APPLICATION NUMBER: US 60/531,752
; PRIOR FILING DATE: 2003-12-22
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 12
; LENGTH: 236
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-022-289-12

Query Match 72.7%; Score 32; DB 11; Length 236;
Best Local Similarity 75.0%; Pred. No. 36;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 LEDL1MGT 9
|:|||||
Db 17 LEDL1LGS 24

RESULT 22
US-11-188-298-21103
; Sequence 21103, Application US/11188298
; Publication No. US2006007552A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 21103
; LENGTH: 326
; TYPE: PRT
; ORGANISM: Streptomyces rochei
US-11-188-298-21103

Query Match 72.7%; Score 32; DB 11; Length 326;
Best Local Similarity 75.0%; Pred. No. 52;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 LEDL1MGT 9
|:|||||
Db 310 VEDL1VGT 317

RESULT 23
US-10-999-866-32
; Sequence 32, Application US/10999866
; Publication No. US2005026004A1
; GENERAL INFORMATION:
; APPLICANT: GILES-KOMAR, Jill; SCALLON, Bernard J.; CAL, Ann
; TITLE OF INVENTION: ANTI-HUMAN LYMPHOTOXIN ALPHA ANTIBODIES, COMPOSITIONS, METHODS AN
; FILE REFERENCE: CENS042NP
; CURRENT APPLICATION NUMBER: US/10/999,866

; CURRENT FILING DATE: 2004-11-30
; PRIOR APPLICATION NUMBER: 60/527,794
; PRIOR FILING DATE: 2003-12-08
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 32
; LENGTH: 340
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(340)
; OTHER INFORMATION: IGA2 heavy chain constant region
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(102)
; OTHER INFORMATION: CH1
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (103)..(108)
; OTHER INFORMATION: hinge
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (109)..(209)
; OTHER INFORMATION: CH2
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (210)..(340)
; OTHER INFORMATION: CH3

US-10-999-866-32

Query Match 72.7%; Score 32; DB 9; Length 340;
Best Local Similarity 75.0%; Pred. No. 55;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 LEDL1MGT 9
|:|||||
Db 121 LEDL1LGS 128

RESULT 24
US-10-493-909-18
; Sequence 18, Application US/10493909
; Publication No. US20060015969A1
; GENERAL INFORMATION:
; APPLICANT: LARRICK, JAMES W.
; APPLICANT: WYCOFF, KEITH L.
; TITLE OF INVENTION: NOVEL IMMUNOADHESINS FOR TREATING AND PREVENTING TOXICITY
; FILE REFERENCE: 41514-20004.01
; CURRENT APPLICATION NUMBER: US/10/493,909
; CURRENT FILING DATE: 2004-04-26
; PRIOR APPLICATION NUMBER: PCT/US01/13932
; PRIOR FILING DATE: 2001-04-28
; PRIOR APPLICATION NUMBER: 60/200,298
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 101
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
; LENGTH: 340
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-493-909-18

Query Match 72.7%; Score 32; DB 9; Length 340;
Best Local Similarity 75.0%; Pred. No. 55;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 LEDL1MGT 9
|:|||||
Db 121 LEDL1LGS 128

RESULT 25
US-10-935-005B-63
; Sequence 63, Application US/10935005B
; Publication No. US20060051844A1
; GENERAL INFORMATION:
; APPLICANT: HEAVNER, George A.; KNIGHT, David; GRAVER, John; SCALLON, Bernard;
; APPLICANT: NESSFOR, Thomas; HUANG, Chichang
; TITLE OF INVENTION: HUMAN EPO MIMETIC HINGE CORE MIMETIBODIES,
; FILE REFERENCE: CEN5039NP
; CURRENT APPLICATION NUMBER: US/10/935,005B
; CURRENT FILING DATE: 2004-09-03
; NUMBER OF SEQ ID NOS: 89
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 63
; LENGTH: 340
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(340)
; OTHER INFORMATION: Iga2 heavy chain constant region
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(102)
; OTHER INFORMATION: CH1
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (103)..(108)
; OTHER INFORMATION: hinge
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (109)..(209)
; OTHER INFORMATION: CH2
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (210)..(340)
; OTHER INFORMATION: CH3
US-10-935-005B-63

Query Match 72.7%; Score 32; DB 9; Length 340;
Best Local Similarity 75.0%; Pred. No. 55;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 LEDLMGT 9
Db 121 LEDLIGS 128

RESULT 26
US-11-091-234A-32
; Sequence 32, Application US/11091234A
; Publication No. US2006008845A1
; GENERAL INFORMATION:
; APPLICANT: Lu, Jin
; TITLE OF INVENTION: METHOD AND APPARATUS FOR ANALYZING AND GENERATING
; FILE REFERENCE: CEN5052NP
; CURRENT APPLICATION NUMBER: US/11/091,234A
; CURRENT FILING DATE: 2005-03-28
; PRIOR APPLICATION NUMBER: 60/558,090
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 32
; LENGTH: 340
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(340)
; OTHER INFORMATION: Iga2 heavy chain constant region
; FEATURE:
; NAME/KEY: MISC FEATURE

; LOCATION: (1)..(102)
; OTHER INFORMATION: CH1
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (103)..(108)
; OTHER INFORMATION: hinge
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (109)..(209)
; OTHER INFORMATION: CH2
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (210)..(340)
; OTHER INFORMATION: CH3
US-11-091-234A-32

Query Match 72.7%; Score 32; DB 10; Length 340;
Best Local Similarity 75.0%; Pred. No. 55;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 LEDLMGT 9
Db 121 LEDLIGS 128

RESULT 27
US-11-061-821-32
; Sequence 32, Application US/11061821
; Publication No. US2005026005A1
; GENERAL INFORMATION:
; APPLICANT: Heavner, George, Li, Onell, Karyn
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING IL-13 RELATED PATHOLOGIES
; FILE REFERENCE: CEN5048 NP
; CURRENT APPLICATION NUMBER: US/11/061,821
; CURRENT FILING DATE: 2005-02-18
; PRIOR APPLICATION NUMBER: 60/548,648
; PRIOR FILING DATE: 2004-02-27
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: PatentIn Ver 3.3
; SEQ ID NO 32
; LENGTH: 340
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(340)
; OTHER INFORMATION: Iga2 heavy chain constant region
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(102)
; OTHER INFORMATION: CH1
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (103)..(108)
; OTHER INFORMATION: hinge
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (109)..(209)
; OTHER INFORMATION: CH2
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (210)..(340)
; OTHER INFORMATION: CH3
US-11-061-821-32

Query Match 72.7%; Score 32; DB 11; Length 340;
Best Local Similarity 75.0%; Pred. No. 55;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 LEDLMGT 9
Db 121 LEDLIGS 128


```
RESULT 28
US-10-493-909-16
; Sequence 16, Application US/10493909
; Publication No. US20060015969A1
; GENERAL INFORMATION:
; APPLICANT: LARRICK, JAMES W.
; APPLICANT: WYCOFF, KEITH L.
; TITLE OF INVENTION: NOVEL IMMUNOADHESINS FOR TREATING AND PREVENTING TOXICITY
; TITLE OF INVENTION: AND PATHOGEN-MEDIATED DISEASES
; FILE REFERENCE: 41514-20004.01
; CURRENT APPLICATION NUMBER: US/10/493,909
; PRIOR FILING DATE: 2004-04-26
; PRIOR APPLICATION NUMBER: PCT/US01/13932
; PRIOR FILING DATE: 2001-04-28
; PRIOR APPLICATION NUMBER: 60/200,298
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 101
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 353
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-493-909-16

Query Match          72.7%; Score 32; DB 9; Length 353;
Best Local Similarity 75.0%; Pred. No. 57;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 LEDLMGT 9
Db 134 LEDLIGS 141

RESULT 29
US-11-022-289-9
; Sequence 9, Application US/11022289
; Publication No. US20050249723A1
; GENERAL INFORMATION:
; APPLICANT: LAZAR, Gregory Alan
; TITLE OF INVENTION: FC POLYPEPTIDES WITH NOVEL FC LIGAND BINDING SITES
; FILE REFERENCE: 185831/US/2
; CURRENT APPLICATION NUMBER: US/11/022,289
; PRIOR FILING DATE: 2004-12-21
; PRIOR APPLICATION NUMBER: US 60/531,752
; PRIOR FILING DATE: 2003-12-22
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 9
; LENGTH: 353
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-022-289-9

Query Match          72.7%; Score 32; DB 11; Length 353;
Best Local Similarity 75.0%; Pred. No. 57;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 LEDLMGT 9
Db 134 LEDLIGS 141

RESULT 30
US-10-999-866-31
; Sequence 31, Application US/10999866
; Publication No. US20050266004A1
; GENERAL INFORMATION:
; APPLICANT: GILES-KOMAR, JILL; SCALLON, Bernard J.; CAI, Ann
; TITLE OF INVENTION: ANTI-HUMAN LYMPHOTOXIN ALPHA ANTIBODIES, COMPOSITIONS, METHODS AN
; FILE REFERENCE: CENS042NP
; CURRENT APPLICATION NUMBER: US/10/999,866
; CURRENT FILING DATE: 2004-11-30
```

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; PRIOR APPLICATION NUMBER: 60/527,794
; PRIOR FILING DATE: 2003-12-08
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 31
; LENGTH: 354
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(354)
; OTHER INFORMATION: IgA1 heavy chain constant region
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(102)
; OTHER INFORMATION: CH1
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (103)..(121)
; OTHER INFORMATION: hinge
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (122)..(222)
; OTHER INFORMATION: CH2
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (223)..(354)
; OTHER INFORMATION: CH3
US-10-999-866-31

Query Match          72.7%; Score 32; DB 9; Length 354;
Best Local Similarity 75.0%; Pred. No. 57;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 LEDLMGT 9
Db 134 LEDLIGS 141

RESULT 31
US-10-935-005B-62
; Sequence 62, Application US/10935005B
; Publication No. US20060051844A1
; GENERAL INFORMATION:
; APPLICANT: HEAVNER, George A.; KNIGHT, David; GRAYEB, John; SCALLON, Bernard;
; TITLE OF INVENTION: HUMAN EPO MIMETIC HINGE CORE MIMETIBODIES,
; FILE REFERENCE: CENS039NP
; CURRENT APPLICATION NUMBER: US/10/935,005B
; PRIOR FILING DATE: 2004-09-03
; NUMBER OF SEQ ID NOS: 89
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 62
; LENGTH: 354
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(354)
; OTHER INFORMATION: IgA1 heavy chain constant region
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(102)
; OTHER INFORMATION: CH1
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (103)..(121)
; OTHER INFORMATION: hinge
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (122)..(222)
; OTHER INFORMATION: CH2
; FEATURE:
```

NAME/KEY: MISC FEATURE
LOCATION: (223)..(354)
OTHER INFORMATION: CH3
US-10-935-005B-62

Query Match 72.7%; Score 32; DB 9; Length 354;
Best Local Similarity 75.0%; Pred. No. 57;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 LEDLDMGT 9
DB 134 LEDLDMGT 141

RESULT 32
US-11-091-234A-31
Sequence 31, Application US/11091234A
Publication No. US2006008845A1
GENERAL INFORMATION:
APPLICANT: Lu, Jin
TITLE OF INVENTION: METHOD AND APPARATUS FOR ANALYZING AND GENERATING
FILE REFERENCE: CENS052NP
CURRENT APPLICATION NUMBER: US/11/091,234A
PRIOR FILING DATE: 2005-03-28
PRIOR APPLICATION NUMBER: 60/558,090
PRIOR FILING DATE: 2004-03-31
NUMBER OF SEQ ID NOS: 41
SOFTWARE: PatentIn version 3.3
SEQ ID NO 31
LENGTH: 354
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (1)..(102)
OTHER INFORMATION: CH1
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (103)..(121)
OTHER INFORMATION: hinge
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (122)..(222)
OTHER INFORMATION: CH2
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (223)..(354)
OTHER INFORMATION: CH3
US-11-091-234A-31

Query Match 72.7%; Score 32; DB 10; Length 354;
Best Local Similarity 75.0%; Pred. No. 57;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 LEDLDMGT 9
DB 134 LEDLDMGT 141

RESULT 33
US-11-061-821-31
Sequence 31, Application US/11061821
Publication No. US2005026005A1
GENERAL INFORMATION:
APPLICANT: Heavner, George; Li, Li; Oneil, Karyn
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING IL-13 RELATED PATHOLOGIES
FILE REFERENCE: CENS048 NP
CURRENT APPLICATION NUMBER: US/11/061,821

CURRENT FILING DATE: 2005-02-18
PRIOR APPLICATION NUMBER: 60/548,648
PRIOR FILING DATE: 2004-02-27
NUMBER OF SEQ ID NOS: 42
SOFTWARE: PatentIn Ver 3.3
SEQ ID NO 31
LENGTH: 354
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (1)..(102)
OTHER INFORMATION: CH1
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (103)..(121)
OTHER INFORMATION: hinge
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (122)..(222)
OTHER INFORMATION: CH2
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (223)..(354)
OTHER INFORMATION: CH3
US-11-061-821-31

Query Match 72.7%; Score 32; DB 11; Length 354;
Best Local Similarity 75.0%; Pred. No. 57;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 LEDLDMGT 9
DB 134 LEDLDMGT 141

RESULT 34
US-11-264-096-2194
Sequence 2194, Application US/11264096
Publication No. US20060084794A1
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Albumin Fusion Proteins
FILE REFERENCE: PFS46D1
CURRENT APPLICATION NUMBER: US/11/264,096
CURRENT FILING DATE: 2005-11-02
PRIOR APPLICATION NUMBER: 09/833,245
PRIOR FILING DATE: 2001-04-12
PRIOR APPLICATION NUMBER: 60/229,358
PRIOR FILING DATE: 2000-04-12
PRIOR APPLICATION NUMBER: 60/256,931
PRIOR FILING DATE: 2000-12-21
PRIOR APPLICATION NUMBER: 60/199,384
PRIOR FILING DATE: 2000-04-25
NUMBER OF SEQ ID NOS: 2267
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2194
LENGTH: 487
TYPE: PRT
ORGANISM: Homo sapiens
US-11-264-096-2194

Query Match 72.7%; Score 32; DB 11; Length 487;
Best Local Similarity 75.0%; Pred. No. 82;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 LEDLDMGT 9
DB 268 LEDLDMGT 275

```
RESULT 35
US-11-072-512-3243
; Sequence 3243, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOTYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3243
; LENGTH: 491
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-072-512-3243

Query Match          72.7%; Score 32; DB 11; Length 491;
Best Local Similarity 75.0%; Pred. No. 83;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      2 LEDLMGT 9
DB      272 LEDLLGS 279

RESULT 36
US-11-264-096-302
; Sequence 302, Application US/11264096
; Publication No. US20060084794A1
; GENERAL INFORMATION:
; APPLICANT: ROSEN ET AL.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PFS46D1
; CURRENT APPLICATION NUMBER: US/11/264,096
; CURRENT FILING DATE: 2005-11-02
; PRIOR APPLICATION NUMBER: 09/833,245
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: 60/229,358
; PRIOR FILING DATE: 2000-04-12
; PRIOR APPLICATION NUMBER: 60/256,931
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/199,384
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 2267
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 302
; LENGTH: 495
; TYPE: PRT
```

```
; ORGANISM: Homo sapiens
US-11-264-096-302

Query Match          72.7%; Score 32; DB 11; Length 495;
Best Local Similarity 75.0%; Pred. No. 84;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      2 LEDLMGT 9
DB      276 LEDLLGS 283

RESULT 37
US-11-072-512-3006
; Sequence 3006, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOTYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3006
; LENGTH: 496
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-072-512-3006

Query Match          72.7%; Score 32; DB 11; Length 496;
Best Local Similarity 75.0%; Pred. No. 84;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      2 LEDLMGT 9
DB      277 LEDLLGS 284

RESULT 38
US-11-072-512-3773
; Sequence 3773, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
```

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; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHIKO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOTYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: Novel full length cdna
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3773
; LENGTH: 497
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-072-512-3773

Query Match          72.7%; Score 32; DB 11; Length 497;
Best Local Similarity 75.0%; Pred. No. 84;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      2 LEDLMGT 9
Db      278 LEDLIGS 285

RESULT 39
US-11-072-512-3233
; Sequence 3233, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHIKO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOTYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: Novel full length cdna
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3233
; LENGTH: 508
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-072-512-3233
```

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Query Match          72.7%; Score 32; DB 11; Length 508;
Best Local Similarity 75.0%; Pred. No. 86;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      2 LEDLMGT 9
Db      289 LEDLIGS 296

RESULT 40
US-11-264-096-2189
; Sequence 2189, Application US/11264096
; Publication No. US20060084794A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PF546D1
; CURRENT APPLICATION NUMBER: US/11/264,096
; CURRENT FILING DATE: 2005-11-02
; PRIOR APPLICATION NUMBER: 09/833,245
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: 60/229,358
; PRIOR FILING DATE: 2000-04-12
; PRIOR APPLICATION NUMBER: 60/256,931
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/199,384
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 2267
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2189
; LENGTH: 530
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (488)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (490)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (494)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (495)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (505)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-11-264-096-2189

Query Match          72.7%; Score 32; DB 11; Length 530;
Best Local Similarity 75.0%; Pred. No. 90;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      2 LEDLMGT 9
Db      275 LEDLIGS 282

RESULT 41
US-10-493-903-99
; Sequence 99, Application US/10493909
; Publication No. US20060015969A1
; GENERAL INFORMATION:
; APPLICANT: LARRICK, JAMES W.
; APPLICANT: WYCOFF, KEITH L.
; TITLE OF INVENTION: NOVEL IMMUNOADHESINS FOR TREATING AND PREVENTING TOXICITY
```

```

; TITLE OF INVENTION: AND PATHOGEN-MEDIATED DISEASES
; FILE REFERENCE: 41514-20004.01
; CURRENT APPLICATION NUMBER: US/10/493,909
; CURRENT FILING DATE: 2004-04-26
; PRIOR APPLICATION NUMBER: PCT/US01/13932
; PRIOR FILING DATE: 2001-04-28
; PRIOR APPLICATION NUMBER: 60/200,298
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 101
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 99
; LENGTH: 538
; TYPE: PRT
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: ATR-IGA2 fusion
; US-10-493-909-99

Query Match      72.7%; Score 32; DB 9; Length 538;
Best Local Similarity 75.0%; Pred. No. 92;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy      2 LEDLMGT 9
Db      319 LEDVLGGS 326

RESULT 42
US-11-022-289-10
; Sequence 10, Application US/11022289
; Publication No. US20050249723a1
; GENERAL INFORMATION:
; APPLICANT: Lazar, Gregory Alan
; TITLE OF INVENTION: FC POLYPEPTIDES WITH NOVEL FC LIGAND BINDING SITES
; FILE REFERENCE: 185831/US/2
; CURRENT APPLICATION NUMBER: US/11/022,289
; CURRENT FILING DATE: 2004-12-21
; PRIOR APPLICATION NUMBER: US 60/531,752
; PRIOR FILING DATE: 2003-12-22
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 10
; LENGTH: 564
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic
; US-11-022-289-10

Query Match      72.7%; Score 32; DB 11; Length 564;
Best Local Similarity 75.0%; Pred. No. 97;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy      2 LEDLMGT 9
Db      363 LEDVLGGS 370

RESULT 43
US-11-096-568A-28443
; Sequence 28443, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 28443
; LENGTH: 764

Query Match      72.7%; Score 32; DB 11; Length 794;
Best Local Similarity 75.0%; Pred. No. 1.4e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy      2 LEDLMGT 9
Db      207 LEDVLGGS 214

RESULT 45
US-11-096-568A-28441
; Sequence 28441, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 28441
; LENGTH: 794
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(794)
; OTHER INFORMATION: Ceres Seq. ID no. 2731146
; US-11-096-568A-28441

Query Match      72.7%; Score 32; DB 11; Length 794;
Best Local Similarity 75.0%; Pred. No. 1.4e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy      2 LEDLMGT 9
Db      182 LEDVLGGS 189

RESULT 44
US-11-096-568A-28442
; Sequence 28442, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 28442
; LENGTH: 789
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(789)
; OTHER INFORMATION: Ceres Seq. ID no. 2731147
; US-11-096-568A-28442

Query Match      72.7%; Score 32; DB 11; Length 789;
Best Local Similarity 75.0%; Pred. No. 1.4e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy      2 LEDLMGT 9
Db      207 LEDVLGGS 214

RESULT 45
US-11-096-568A-28441
; Sequence 28441, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 28441
; LENGTH: 794
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(794)
; OTHER INFORMATION: Ceres Seq. ID no. 2731146
; US-11-096-568A-28441

Query Match      72.7%; Score 32; DB 11; Length 794;
Best Local Similarity 75.0%; Pred. No. 1.4e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

QY 2 LEDLWGT 9
|:|:|:|:
Db 212 LEDLWGS 219

RESULT 46
US-10-493-909-8
; Sequence 8, Application US/10493909
; Publication No. US20060015969A1
; GENERAL INFORMATION:
; APPLICANT: LARRICK, JAMES W.
; TITLE OF INVENTION: NOVEL IMMUNOADHESINS FOR TREATING AND PREVENTING TOXICITY
; FILE REFERENCE: 41514-20004.01
; CURRENT APPLICATION NUMBER: US/10/493,909
; PRIOR FILING DATE: 2004-04-26
; PRIOR APPLICATION NUMBER: PCT/US01/13932
; PRIOR FILING DATE: 2001-04-28
; PRIOR APPLICATION NUMBER: 60/200,298
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 101
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 799
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-493-909-8

Query Match 72.7%; Score 32; DB 9; Length 799;
Best Local Similarity 75.0%; Pred. No. 1.4e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 LEDLWGT 9
|:|:|:|:
Db 573 LEDLWGS 580

RESULT 47
US-10-493-909-48
; Sequence 48, Application US/10493909
; Publication No. US20060015969A1
; GENERAL INFORMATION:
; APPLICANT: LARRICK, JAMES W.
; APPLICANT: WYCOFF, KEITH L.
; TITLE OF INVENTION: NOVEL IMMUNOADHESINS FOR TREATING AND PREVENTING TOXICITY
; TITLE OF INVENTION: AND PATHOGEN-MEDIATED DISEASES
; FILE REFERENCE: 41514-20004.01
; CURRENT APPLICATION NUMBER: US/10/493,909
; PRIOR FILING DATE: 2004-04-26
; PRIOR APPLICATION NUMBER: PCT/US01/13932
; PRIOR FILING DATE: 2001-04-28
; PRIOR APPLICATION NUMBER: 60/200,298
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 101
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 48
; LENGTH: 822
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Protein
; OTHER INFORMATION: encoded by plasmid pSSPICAMHUA2
US-10-493-909-48

Query Match 72.7%; Score 32; DB 9; Length 822;
Best Local Similarity 75.0%; Pred. No. 1.5e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 LEDLWGT 9
|:|:|:|:
Db 596 LEDLWGS 603

RESULT 48
US-10-995-561-1009
; Sequence 1009, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE. METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1009
; LENGTH: 1141
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-995-561-1009

Query Match 72.7%; Score 32; DB 9; Length 1141;
Best Local Similarity 75.0%; Pred. No. 2.1e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 LEDLWGT 9
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Db 353 LEDLWGT 360

RESULT 49
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; Sequence 1010, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE. METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1010
; LENGTH: 1141
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-995-561-1010

Query Match 72.7%; Score 32; DB 9; Length 1141;
Best Local Similarity 75.0%; Pred. No. 2.1e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

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Db 353 LEDLWGT 360

RESULT 50
US-10-506-454-1211
; Sequence 1211, Application US/10506454
; Publication No. US20060068386A1
; GENERAL INFORMATION:
; APPLICANT: Slesarev, Alexi I
; APPLICANT: Mezhevaya, Katja V
; APPLICANT: Polishch, Nikolai N
; APPLICANT: Shcherbinina, Olga V
; APPLICANT: Shakhova, Vera V
; APPLICANT: Mal'kh, Andrei G
; APPLICANT: Koz'yavkin, Sergei A
; TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophilic

; TITLE OF INVENTION: Methanopyrus kandleri AV19 and Monophyly of Archaeal Methanogens
; TITLE OF INVENTION: and Methods of Use Thereof
; FILE REFERENCE: PID001
; CURRENT APPLICATION NUMBER: US/10/506,454
; CURRENT FILING DATE: 2004-08-31
; PRIOR APPLICATION NUMBER: PCT/US03/06664
; PRIOR FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: 60/361,742
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1722
; SOFTWARE: Patent version 3.2
; SEQ ID NO 1211
; LENGTH: 269
; TYPE: PRT
; ORGANISM: Methanopyrus kandleri
US-10-506-454-1211

Query Match 70.5%; Score 31; DB 9; Length 269;
Best Local Similarity 75.0%; Pred. NO. 68;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 TLBDLNG 8
|:|||||
Db 71 TVRD LMG 78

Search completed: May 5, 2006, 08:56:07
Job time : 10 secs

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OM protein - protein search, using sw model

Run on: May 5, 2006, 01:33:35 ; Search time 18.2 Seconds
(without alignments)
40.884 Million cell updates/sec

Title: US-08-170-344-18
Perfect score: 42
Sequence: 1 LMGTLGIV 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database :
1: Issued Patents AA: *
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3: /cgn2_6/ptodata/1/1aa/6 COMB.pep: *
4: /cgn2_6/ptodata/1/1aa/PCrntus COMB.pep: *
5: /cgn2_6/ptodata/1/1aa/RE COMB.pep: *
6: /cgn2_6/ptodata/1/1aa/backfiles.pep: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	42	100.0	9	2	US-08-948-378A-1
3	42	100.0	9	2	US-09-124-671-9
4	42	100.0	9	2	US-09-169-425C-1
5	42	100.0	9	2	US-08-197-484-65
6	42	100.0	9	2	US-09-759-960-1
7	42	100.0	9	2	US-09-601-729-271
8	42	100.0	9	2	US-10-365-908-5
9	42	100.0	9	4	PCT-US95-02121-65
10	42	100.0	10	2	US-10-365-908-47
11	42	100.0	13	2	US-08-948-378A-3
12	42	100.0	13	2	US-09-169-425C-3
13	42	100.0	13	2	US-09-759-960-3
14	42	100.0	16	2	US-09-169-425C-25
15	42	100.0	16	2	US-09-759-960-25
16	42	100.0	19	2	US-09-980-523A-18
17	42	100.0	20	2	US-08-075-541D-50
18	42	100.0	20	2	US-09-794-529B-12
19	42	100.0	20	2	US-09-794-529B-13
20	42	100.0	20	2	US-09-794-517A-12
21	42	100.0	20	2	US-09-794-517A-13
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24	42	100.0	20	2	US-09-794-832-12
25	42	100.0	20	2	US-09-794-832-13
26	42	100.0	20	2	US-09-680-806A-12
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35	42	100.0	26	2	US-08-075-541D-40	Sequence 40, Appl
36	42	100.0	28	2	US-09-486-394-5	Sequence 5, Appl
37	42	100.0	30	1	US-08-934-915-54	Sequence 54, Appl
38	42	100.0	30	2	US-09-486-394-4	Sequence 4, Appl
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58	42	100.0	172	2	US-09-359-882-14	Sequence 14, Appl
59	42	100.0	185	2	US-09-462-893-2	Sequence 2, Appl
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62	42	100.0	220	2	US-09-485-885-1	Sequence 1, Appl
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67	42	100.0	253	1	US-08-465-078-20	Sequence 20, Appl
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78	42	100.0	371	2	US-10-267-311-25	Sequence 25, Appl
79	42	100.0	371	2	US-09-485-885-6	Sequence 6, Appl
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82	42	100.0	493	2	US-09-613-303-19	Sequence 19, Appl
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86	42	100.0	641	2	US-09-613-303-51	Sequence 51, Appl
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92	42	100.0	711	2	US-09-613-303-41	Sequence 41, Appl
93	42	100.0	711	2	US-10-267-311-41	Sequence 41, Appl
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95	42	100.0	724	2	US-09-613-303-45	Sequence 45, Appl
96	42	100.0	724	2	US-10-267-311-45	Sequence 45, Appl
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98	38	90.5	12	2	US-08-948-378A-16	Sequence 16, Appl
99	38	90.5	12	2	US-09-169-425C-16	Sequence 16, Appl
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102	38	90.5	13	2	US-08-948-378A-19	Sequence 19, Appl1	175	31	73.8	413	2	US-10-104-047-2399	Sequence 2399, Ap
103	38	90.5	13	2	US-09-169-425C-4	Sequence 4, Appl1	176	31	73.8	464	2	US-09-724-86A-40	Sequence 40, Appl1
104	38	90.5	13	2	US-09-169-425C-19	Sequence 19, Appl1	177	31	73.8	464	2	US-09-604-978-7	Sequence 7, Appl1
105	38	90.5	13	2	US-09-759-960-4	Sequence 4, Appl1	178	31	73.8	464	2	US-09-604-728-7	Sequence 7, Appl1
106	38	90.5	13	2	US-09-759-960-19	Sequence 19, Appl1	179	31	73.8	464	2	US-10-325-878-7	Sequence 7, Appl1
107	38	90.5	15	2	US-08-159-339A-1168	Sequence 1168, Ap	180	31	73.8	464	2	US-09-823-038A-47	Sequence 47, Appl1
108	38	90.5	20	2	US-08-075-541D-49	Sequence 49, Appl1	181	31	73.8	468	2	US-09-252-991A-22874	Sequence 22874, A
109	38	90.5	38	2	US-08-948-378A-6	Sequence 6, Appl1	182	31	73.8	559	2	US-09-583-110-4688	Sequence 4688, Ap
110	38	90.5	38	2	US-09-169-425C-6	Sequence 6, Appl1	183	31	73.8	566	2	US-09-107-433-4306	Sequence 4206, Ap
111	38	90.5	38	2	US-09-759-960-6	Sequence 6, Appl1	184	31	73.8	595	2	US-09-248-796A-30423	Sequence 20423, A
112	34	81.0	10	2	US-10-365-908-46	Sequence 46, Appl1	185	31	73.8	613	2	US-09-328-352-7991	Sequence 7991, Ap
113	34	81.0	11	2	US-09-169-425C-33	Sequence 33, Appl1	186	30	71.4	65	2	US-09-107-532A-5728	Sequence 5728, Ap
114	34	81.0	11	2	US-09-759-960-33	Sequence 33, Appl1	187	30	71.4	209	2	US-09-902-540-9772	Sequence 9772, Ap
115	34	81.0	14	2	US-09-169-425C-32	Sequence 32, Appl1	188	30	71.4	242	2	US-09-489-039A-13108	Sequence 13108, A
116	34	81.0	14	2	US-09-759-960-32	Sequence 32, Appl1	189	30	71.4	245	2	US-09-489-039A-14192	Sequence 14192, A
117	34	81.0	205	2	US-09-902-540-12001	Sequence 12001, A	190	30	71.4	246	2	US-09-902-540-14655	Sequence 12655, A
118	34	81.0	283	2	US-09-248-796A-16105	Sequence 16105, A	191	30	71.4	267	2	US-09-902-540-11826	Sequence 12826, A
119	34	81.0	358	2	US-09-270-767-45720	Sequence 45720, A	192	30	71.4	324	2	US-09-248-796A-19970	Sequence 19970, A
120	33	78.6	9	2	US-09-124-671-8	Sequence 8, Appl1	193	30	71.4	373	2	US-09-134-001C-4029	Sequence 4029, Ap
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122	33	78.6	20	2	US-09-794-5298-10	Sequence 10, Appl1	195	30	71.4	383	1	US-08-457-135-2	Sequence 2, Appl1
123	33	78.6	20	2	US-09-794-5298-11	Sequence 11, Appl1	196	30	71.4	383	2	US-09-142-027A-12	Sequence 12, Appl1
124	33	78.6	20	2	US-09-794-517A-10	Sequence 10, Appl1	197	30	71.4	467	2	US-09-540-236-2598	Sequence 2598, Ap
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126	33	78.6	20	2	US-09-011-645E-10	Sequence 10, Appl1	199	30	71.4	482	2	US-09-902-540-16520	Sequence 16520, A
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128	33	78.6	20	2	US-09-794-832-10	Sequence 10, Appl1	201	30	71.4	560	2	US-08-983-045-4	Sequence 4, Appl1
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130	33	78.6	20	2	US-09-680-806A-10	Sequence 10, Appl1	203	30	71.4	765	2	US-08-444-818-70	Sequence 70, Appl1
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136	33	78.6	56	2	US-09-902-540-12344	Sequence 12344, A	209	29	69.0	9	2	US-09-759-960-21	Sequence 21, Appl1
137	33	78.6	179	1	US-08-690-095-9	Sequence 9, Appl1	210	29	69.0	9	2	US-10-365-908-50	Sequence 50, Appl1
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139	33	78.6	179	1	US-08-688-342-3	Sequence 3, Appl1	212	29	69.0	9	4	PCT-US95-02121-70	Sequence 9, Appl1
140	33	78.6	179	1	US-09-113-788-3	Sequence 3, Appl1	213	29	69.0	10	2	US-09-405-968A-10	Sequence 10, Appl1
141	33	78.6	179	2	US-09-113-789-9	Sequence 9, Appl1	214	29	69.0	10	2	US-09-405-968A-10	Sequence 91, Appl1
142	33	78.6	179	2	US-09-919-039-130	Sequence 130, App	215	29	69.0	10	2	US-10-365-908-91	Sequence 91, Appl1
143	33	78.6	179	2	US-09-949-016-6200	Sequence 6200, Ap	216	29	69.0	10	2	US-09-169-425C-31	Sequence 31, Appl1
144	33	78.6	375	2	US-09-000-094-22	Sequence 22, Appl1	217	29	69.0	11	2	US-09-169-425C-31	Sequence 31, Appl1
145	33	78.6	375	2	US-10-011-749-22	Sequence 22, Appl1	218	29	69.0	11	2	US-09-759-960-31	Sequence 31, Appl1
146	33	78.6	412	2	US-09-202-918-2	Sequence 2, Appl1	219	29	69.0	13	2	US-08-159-339A-1167	Sequence 1167, Ap
147	33	78.6	455	2	US-09-000-094-24	Sequence 24, Appl1	220	29	69.0	44	1	US-08-472-244-10	Sequence 10, Appl1
148	33	78.6	465	2	US-10-011-749-24	Sequence 24, Appl1	221	29	69.0	68	2	US-08-302-756E-23	Sequence 23, Appl1
149	33	78.6	483	2	US-09-489-039A-13018	Sequence 13018, A	222	29	69.0	85	2	US-09-902-540-10326	Sequence 10326, A
150	33	78.6	601	1	US-08-606-288-7	Sequence 7, Appl1	223	29	69.0	101	2	US-09-198-452A-1227	Sequence 1227, App
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152	33	78.6	601	2	US-09-347-483-7	Sequence 7, Appl1	225	29	69.0	112	2	US-10-360-101-261	Sequence 261, App
153	33	78.6	601	2	US-09-347-483-10	Sequence 10, Appl1	226	29	69.0	143	2	US-09-270-767-34027	Sequence 34027, A
154	33	78.6	1587	2	US-09-000-094-46	Sequence 46, Appl1	227	29	69.0	143	2	US-09-270-767-49244	Sequence 49244, A
155	33	78.6	1587	2	US-10-011-749-46	Sequence 46, Appl1	228	29	69.0	147	2	US-09-540-236-3333	Sequence 3333, Ap
156	32	76.2	340	2	US-09-214-631-3	Sequence 3, Appl1	229	29	69.0	159	2	US-09-540-236-3333	Sequence 4250, Ap
157	32	76.2	340	2	US-09-051-994-2	Sequence 2, Appl1	230	29	69.0	169	2	US-09-540-236-3514	Sequence 3514, Ap
158	32	76.2	340	2	US-08-335-130A-4	Sequence 4, Appl1	231	29	69.0	186	2	US-09-270-767-58500	Sequence 58500, A
159	32	76.2	340	2	US-09-949-016-6076	Sequence 6076, Ap	232	29	69.0	186	2	US-09-489-039A-12969	Sequence 12969, A
160	32	76.2	397	2	US-09-949-016-10967	Sequence 10967, A	233	29	69.0	215	1	US-08-690-095-7	Sequence 7, Appl1
161	32	76.2	455	2	US-08-635-130A-2	Sequence 2, Appl1	234	29	69.0	215	2	US-09-113-789-7	Sequence 7, Appl1
162	32	76.2	952	2	US-09-107-532A-4706	Sequence 4706, Ap	235	29	69.0	215	2	US-08-543-246B-16	Sequence 16, Appl1
163	31	73.8	18	1	US-09-013-63A-4	Sequence 4, Appl1	236	29	69.0	215	2	US-08-543-246B-22	Sequence 22, Appl1
164	31	73.8	28	1	US-07-696-551B-1	Sequence 1, Appl1	237	29	69.0	225	2	US-09-583-110-3528	Sequence 3528, Ap
165	31	73.8	68	2	US-09-902-540-11170	Sequence 11170, A	238	29	69.0	230	2	US-09-107-433-3086	Sequence 3086, Ap
166	31	73.8	139	2	US-09-328-352-8108	Sequence 8108, Ap	239	29	69.0	231	2	US-09-949-016-8815	Sequence 8815, Ap
167	31	73.8	203	2	US-09-377-399-3	Sequence 3, Appl1	240	29	69.0	231	2	US-09-949-016-8816	Sequence 8816, Ap
168	31	73.8	203	2	US-09-163-063-3	Sequence 3, Appl1	241	29	69.0	233	1	US-08-690-095-8	Sequence 8, Appl1
169	31	73.8	204	2	US-09-448-796A-20355	Sequence 20355, A	242	29	69.0	233	1	US-09-113-789-8	Sequence 8, Appl1
170	31	73.8	206	2	US-09-198-452A-879	Sequence 879, App	243	29	69.0	233	2	US-08-543-246B-2	Sequence 2, Appl1
171	31	73.8	206	2	US-09-438-185A-882	Sequence 882, App	244	29	69.0	233	2	US-08-543-246B-21	Sequence 21, Appl1
172	31	73.8	212	2	US-09-198-452A-305	Sequence 305, App	245	29	69.0	240	2	US-09-543-661A-5483	Sequence 5483, Ap
173	31	73.8	212	2	US-09-438-185A-294	Sequence 294, App	246	29	69.0	249	2	US-09-949-016-11591	Sequence 11591, A

247	29	69.0	249	2	US-09-949-016-11592	Sequence 11592, A	320	28	66.7	30	1	US-08-934-915-53	Sequence 53, Appl
248	29	69.0	251	2	US-09-583-110-3220	Sequence 3220, Ap	321	28	66.7	65	2	US-09-489-847-164	Sequence 164, App
249	29	69.0	254	2	US-09-461-325-333	Sequence 333, App	322	28	66.7	68	2	US-09-270-767-34489	Sequence 34489, A
250	29	69.0	254	2	US-10-012-542-333	Sequence 333, App	323	28	66.7	68	2	US-09-270-767-34906	Sequence 49706, A
251	29	69.0	254	2	US-09-919-039-158	Sequence 158, App	324	28	66.7	71	2	US-09-513-9996-7154	Sequence 7154, Ap
252	29	69.0	254	2	US-10-115-123-333	Sequence 333, App	325	28	66.7	104	2	US-08-387-805-10	Sequence 10, Appl
253	29	69.0	256	2	US-09-134-000C-6788	Sequence 6788, Ap	326	28	66.7	126	2	US-09-328-352-5837	Sequence 5837, Ap
254	29	69.0	258	2	US-09-107-433-4719	Sequence 4719, Ap	327	28	66.7	126	2	US-09-902-540-11925	Sequence 11925, A
255	29	69.0	265	2	US-09-107-532A-6716	Sequence 6716, Ap	328	28	66.7	126	2	US-09-902-540-11925	Sequence 11925, A
256	29	69.0	312	2	US-09-461-325-343	Sequence 343, App	329	28	66.7	136	2	US-09-732-210-1254	Sequence 1254, Ap
257	29	69.0	312	2	US-10-012-542-343	Sequence 343, App	330	28	66.7	136	2	US-09-489-039A-11828	Sequence 11828, A
258	29	69.0	312	2	US-10-115-123-343	Sequence 343, App	331	28	66.7	153	2	US-09-673-395A-367	Sequence 367, App
259	29	69.0	318	2	US-09-489-039A-10467	Sequence 10467, A	332	28	66.7	155	2	US-09-252-991A-20933	Sequence 20933, A
260	29	69.0	323	1	US-08-044-812A-4	Sequence 4, Appl	333	28	66.7	175	2	US-09-705-621-7	Sequence 11, Appl
261	29	69.0	323	1	US-08-475-637-4	Sequence 4, Appl	334	28	66.7	177	2	US-09-902-540-13625	Sequence 10963, A
262	29	69.0	323	1	US-08-706-281A-12	Sequence 12, Appl	335	28	66.7	182	2	US-09-902-540-10963	Sequence 3, Appl
263	29	69.0	323	2	US-09-191-359-4	Sequence 4, Appl	336	28	66.7	182	2	US-09-393-634-33	Sequence 8754, Ap
264	29	69.0	323	2	US-09-097-231-12	Sequence 12, Appl	337	28	66.7	190	2	US-09-489-039A-8754	Sequence 6240, Ap
265	29	69.0	323	2	US-09-353-039-12	Sequence 12, Appl	338	28	66.7	196	2	US-09-328-352-6240	Sequence 16007, A
266	29	69.0	323	2	US-09-709-066-2	Sequence 2, Appl	339	28	66.7	205	2	US-09-248-796A-16007	Sequence 16, Appl
267	29	69.0	344	2	US-09-134-000C-4671	Sequence 4671, Ap	340	28	66.7	210	2	US-08-617-785-16	Sequence 16, Appl
268	29	69.0	346	2	US-09-252-991A-31465	Sequence 31465, A	341	28	66.7	220	2	US-09-817-464-16	Sequence 16, Appl
269	29	69.0	352	2	US-09-028-027B-2	Sequence 2, Appl	342	28	66.7	223	2	US-10-166-653-16	Sequence 16, Appl
270	29	69.0	358	2	US-09-107-552A-3777	Sequence 3777, Ap	343	28	66.7	227	2	US-09-134-001C-4836	Sequence 4836, Ap
271	29	69.0	379	2	US-09-248-796A-17332	Sequence 17332, A	344	28	66.7	227	2	US-09-710-279-2642	Sequence 2642, Ap
272	29	69.0	380	1	US-08-773-870-5	Sequence 5, Appl	345	28	66.7	239	2	US-09-543-681A-6888	Sequence 6888, Ap
273	29	69.0	424	2	US-09-627-376-8	Sequence 8, Appl	346	28	66.7	253	2	US-09-540-336-3014	Sequence 3014, Ap
274	29	69.0	424	2	US-10-047-676B-8	Sequence 8, Appl	347	28	66.7	254	2	US-09-252-991A-32919	Sequence 32919, A
275	29	69.0	443	1	US-08-399-986B-2	Sequence 2, Appl	348	28	66.7	255	2	US-09-252-991A-28400	Sequence 28400, A
276	29	69.0	443	1	US-08-493-754A-2	Sequence 2, Appl	349	28	66.7	263	2	US-09-543-681A-7789	Sequence 7789, Ap
277	29	69.0	443	1	US-09-902-540-13038	Sequence 13038, A	350	28	66.7	287	2	US-09-244-984-5	Sequence 5, Appl
278	29	69.0	445	2	US-09-489-039A-8949	Sequence 8949, Ap	351	28	66.7	304	2	US-09-278-1652	Sequence 1652, App
279	29	69.0	477	2	US-09-252-991A-24172	Sequence 24172, A	352	28	66.7	306	2	US-09-748-796A-20371	Sequence 20371, A
280	29	69.0	480	2	US-09-248-796A-20834	Sequence 20834, A	353	28	66.7	313	2	US-09-198-452A-275	Sequence 275, App
281	29	69.0	485	2	US-09-252-991A-31087	Sequence 31087, A	354	28	66.7	319	2	US-09-248-796A-19999	Sequence 19999, A
282	29	69.0	488	2	US-09-540-236-2681	Sequence 2681, Ap	355	28	66.7	320	2	US-10-104-047-2641	Sequence 2641, Ap
283	29	69.0	493	1	US-07-615-448A-7	Sequence 7, Appl	356	28	66.7	321	2	US-09-438-185A-265	Sequence 265, App
284	29	69.0	493	1	US-08-196-361-7	Sequence 7, Appl	357	28	66.7	322	2	US-09-826-609-523	Sequence 523, App
285	29	69.0	493	1	US-08-446-934-7	Sequence 7, Appl	358	28	66.7	328	2	US-09-071-035-368	Sequence 368, App
286	29	69.0	493	1	US-08-448-128-7	Sequence 7, Appl	359	28	66.7	329	2	US-10-206-576-368	Sequence 368, App
287	29	69.0	493	2	US-08-948-703-7	Sequence 7, Appl	360	28	66.7	332	2	US-09-107-433-3941	Sequence 3941, App
288	29	69.0	506	2	US-09-134-000C-6170	Sequence 6170, Ap	361	28	66.7	333	2	US-09-583-110-3671	Sequence 3671, Ap
289	29	69.0	514	2	US-09-489-039A-11902	Sequence 11902, A	362	28	66.7	343	2	US-09-583-681A-8159	Sequence 8159, Ap
290	29	69.0	575	2	US-09-786-240-14	Sequence 14, Appl	363	28	66.7	347	2	US-09-489-039A-11579	Sequence 11579, A
291	29	69.0	601	2	US-09-902-540-11118	Sequence 11118, A	364	28	66.7	357	2	US-09-071-035-366	Sequence 366, App
292	29	69.0	601	2	US-09-902-540-15407	Sequence 15407, A	365	28	66.7	357	2	US-10-206-576-366	Sequence 366, App
293	29	69.0	601	2	US-09-107-532A-7715	Sequence 6715, Ap	366	28	66.7	358	2	US-09-489-039A-8685	Sequence 8685, Ap
294	29	69.0	703	1	US-08-145-681-6	Sequence 6, Appl	367	28	66.7	359	2	US-09-134-000C-4630	Sequence 4630, Ap
295	29	69.0	703	1	US-08-453-703-6	Sequence 6, Appl	368	28	66.7	360	1	US-08-671-525B-6	Sequence 6, Appl
296	29	69.0	703	1	US-08-456-106-6	Sequence 6, Appl	369	28	66.7	360	1	US-08-672-109B-6	Sequence 6, Appl
297	29	69.0	703	2	US-08-456-108-6	Sequence 6, Appl	370	28	66.7	360	1	US-08-842-045-6	Sequence 6, Appl
298	29	69.0	703	2	US-09-265-577-6	Sequence 6, Appl	371	28	66.7	360	1	US-08-842-045-6	Sequence 6, Appl
299	29	69.0	721	2	US-09-633-739-6	Sequence 6, Appl	372	28	66.7	360	1	US-08-780-749A-1	Sequence 1, Appl
300	29	69.0	752	2	US-09-134-000C-5466	Sequence 5466, Ap	373	28	66.7	360	1	US-08-628-335B-6	Sequence 6, Appl
301	29	69.0	777	1	US-09-252-991A-17355	Sequence 17355, A	374	28	66.7	360	2	US-08-870-511-1	Sequence 1, Appl
302	29	69.0	777	1	US-08-477-396A-4	Sequence 4, Appl	375	28	66.7	360	2	US-09-709-066-4	Sequence 4, Appl
303	29	69.0	779	1	US-08-426-627-4	Sequence 4, Appl	376	28	66.7	380	4	PCT-US91-02650-4	Sequence 17, Appl
304	29	69.0	779	1	US-08-426-627-24	Sequence 24, Appl	377	28	66.7	387	2	US-09-549-848B-17	Sequence 17, Appl
305	29	69.0	779	1	US-09-461-912A-39	Sequence 39, Appl	378	28	66.7	387	2	US-09-688-069-17	Sequence 26009, A
306	29	69.0	811	1	US-08-426-627-2	Sequence 2, Appl	379	28	66.7	390	2	US-09-252-991A-26009	Sequence 5273, Ap
307	29	69.0	811	1	US-08-426-627-22	Sequence 22, Appl	380	28	66.7	390	2	US-09-543-681A-5273	Sequence 5544, Ap
308	29	69.0	836	1	US-08-426-627-6	Sequence 6, Appl	381	28	66.7	393	2	US-09-351-150A-29	Sequence 29, Appl
309	29	69.0	837	1	US-08-426-627-23	Sequence 23, Appl	382	28	66.7	393	2	US-09-134-001C-5594	Sequence 15373, A
310	29	69.0	970	2	US-09-795-927-7	Sequence 7, Appl	383	28	66.7	397	2	US-09-489-039A-13098	Sequence 13098, A
311	29	69.0	1060	2	US-09-489-039A-11403	Sequence 11403, A	384	28	66.7	401	2	US-09-543-681A-4678	Sequence 4678, Ap
312	29	69.0	1127	2	US-09-902-540-11084	Sequence 11084, A	385	28	66.7	401	2	US-09-270-767-18282	Sequence 18282, A
313	29	69.0	1259	2	US-09-489-039A-8840	Sequence 8840, Ap	386	28	66.7	415	2	US-09-252-991A-18282	Sequence 18282, A
314	29	69.0	1269	2	US-09-902-540-10352	Sequence 10352, A	387	28	66.7	429	2	US-09-489-039A-13214	Sequence 13214, A
315	29	69.0	3079	4	PCT-US94-00198-4	Sequence 4, Appl	388	28	66.7	442	2	US-09-270-767-45937	Sequence 12747, A
316	29	69.0	3854	2	US-09-949-016-7876	Sequence 7876, Ap	389	28	66.7	459	2	US-09-902-540-12747	Sequence 12747, A
317	28	66.7	9	2	US-10-365-908-22	Sequence 22, Appl	390	28	66.7	457	2	US-09-543-681A-6481	Sequence 6481, Ap
318	28	66.7	10	2	US-10-365-908-42	Sequence 42, Appl	391	28	66.7	464	2	US-09-634-228-295	Sequence 295, App
319	28	66.7	11	2	US-10-365-908-39	Sequence 39, Appl	392	28	66.7				

393	28	66.7	479	2	US-09-634-238-248	Sequence 248, App	466	28	66.7	1225	2	US-09-583-110-3637	Sequence 3637, Ap
394	28	66.7	480	1	US-07-752-4295-2	Sequence 2, Appl1	467	28	66.7	1239	2	US-09-107-433-4267	Sequence 4267, Ap
395	28	66.7	480	1	US-07-752-428C-2	Sequence 2, Appl1	468	28	66.7	1402	2	US-09-711-618-9	Sequence 9, Appl1
396	28	66.7	480	1	US-07-752-428C-4	Sequence 4, Appl1	469	28	66.7	2162	2	US-09-477-962-97	Sequence 97, Appl1
397	28	66.7	481	2	US-09-489-039A-7588	Sequence 7588, Ap	470	28	66.7	2254	1	US-08-677-010-3	Sequence 3, Appl1
398	28	66.7	482	2	US-09-489-039A-9909	Sequence 9909, Ap	471	28	66.7	2254	1	US-08-677-010-3	Sequence 3, Appl1
399	28	66.7	483	2	US-09-949-016-7339	Sequence 7339, Ap	472	27	64.3	18	2	US-08-159-339A-771	Sequence 771, App
400	28	66.7	487	2	US-09-902-540-10085	Sequence 10085, A	473	27	64.3	18	1	US-08-818-235-56	Sequence 56, Appl
401	28	66.7	502	2	US-09-552-991A-24948	Sequence 24948, A	474	27	64.3	18	1	US-08-818-235-61	Sequence 61, Appl
402	28	66.7	506	2	US-09-543-681A-8246	Sequence 8246, Ap	475	27	64.3	18	2	US-08-818-252-56	Sequence 56, Appl
403	28	66.7	518	2	US-09-270-767-57124	Sequence 57124, A	476	27	64.3	18	2	US-09-301-593-61	Sequence 61, Appl
404	28	66.7	530	2	US-09-198-452A-482	Sequence 482, App	477	27	64.3	44	1	US-08-363-311-29	Sequence 29, Appl
405	28	66.7	535	2	US-08-286-870A-6	Sequence 6, Appl1	478	27	64.3	44	1	US-08-463-288A-29	Sequence 29, Appl
406	28	66.7	535	2	US-09-712-363-228	Sequence 228, Appl	479	27	64.3	44	1	US-08-470-445A-29	Sequence 29, Appl
407	28	66.7	536	2	US-09-328-352-4689	Sequence 4689, Ap	480	27	64.3	44	1	US-08-462-679-29	Sequence 29, Appl
408	28	66.7	555	2	US-09-543-681A-63772	Sequence 6372, Ap	481	27	64.3	44	1	US-08-466-210A-29	Sequence 29, Appl
409	28	66.7	562	2	US-09-674-826B-4	Sequence 4, Appl1	482	27	64.3	44	1	US-08-467-147A-29	Sequence 29, Appl
410	28	66.7	573	2	US-09-352-991A-16744	Sequence 16744, A	483	27	64.3	44	1	US-08-469-014-29	Sequence 29, Appl
411	28	66.7	585	2	US-09-352-991A-32406	Sequence 32406, A	484	27	64.3	44	2	US-09-346-290-29	Sequence 29, Appl
412	28	66.7	609	2	US-09-270-767-41879	Sequence 41879, A	485	27	64.3	44	4	PCT-US93-10506A-39	Sequence 29, Appl
413	28	66.7	628	2	US-09-602-787A-550	Sequence 550, App	486	27	64.3	44	4	PCT-US93-10506-25	Sequence 29, Appl
414	28	66.7	628	2	US-09-602-787A-666	Sequence 666, App	487	27	64.3	53	2	US-09-513-993C-4522	Sequence 4522, Ap
415	28	66.7	628	2	US-09-477-962-105	Sequence 105, App	488	27	64.3	65	2	US-09-583-110-2866	Sequence 2866, Ap
416	28	66.7	648	2	US-08-386-870A-4	Sequence 4, Appl1	489	27	64.3	69	2	US-09-489-039A-13262	Sequence 13262, A
417	28	66.7	652	2	US-09-134-001C-4074	Sequence 4074, Ap	490	27	64.3	76	2	US-09-107-433-3897	Sequence 3897, Ap
418	28	66.7	661	1	US-08-655-345-4	Sequence 4, Appl1	491	27	64.3	82	2	US-09-902-540-14531	Sequence 14531, A
419	28	66.7	661	2	US-09-183-755-4	Sequence 4, Appl1	492	27	64.3	88	2	US-08-936-165A-275	Sequence 275, App
420	28	66.7	661	2	US-09-248-796A-20121	Sequence 20121, A	493	27	64.3	90	2	US-08-341-210-24	Sequence 24, Appl
421	28	66.7	681	4	PCT-US96-08407-4	Sequence 4, Appl1	494	27	64.3	90	2	US-08-912-314A-24	Sequence 24, Appl
422	28	66.7	687	2	US-09-902-540-10726	Sequence 10726, A	495	27	64.3	92	2	US-09-248-796A-16168	Sequence 16168, A
423	28	66.7	684	2	US-09-949-016-7019	Sequence 7019, Ap	496	27	64.3	93	1	US-08-964-725-14	Sequence 14, Appl
424	28	66.7	698	2	US-09-727-169-4	Sequence 4, Appl1	497	27	64.3	93	2	US-08-682-4	Sequence 32, Appl
425	28	66.7	698	2	US-09-579-766A-4	Sequence 4, Appl1	498	27	64.3	97	2	US-09-248-796A-16783	Sequence 16783, A
426	28	66.7	703	2	US-09-726-968-4	Sequence 4, Appl1	499	27	64.3	99	2	US-09-513-993C-4517	Sequence 4517, Ap
427	28	66.7	703	2	US-08-910-925-4	Sequence 4, Appl1	500	27	64.3	106	2	US-09-543-681A-7781	Sequence 7781, Ap
428	28	66.7	706	2	US-09-902-540-12578	Sequence 12578, A	501	27	64.3	123	2	US-09-107-532A-5779	Sequence 5779, Ap
429	28	66.7	710	2	US-09-547-789-2	Sequence 2, Appl1	502	27	64.3	128	2	US-09-134-000C-5387	Sequence 5387, Ap
430	28	66.7	717	2	US-08-910-925-1	Sequence 1, Appl1	503	27	64.3	130	2	US-08-838-682-4	Sequence 4, Appl1
431	28	66.7	719	1	US-09-003-217-2	Sequence 2, Appl1	504	27	64.3	130	2	US-08-895-914-4	Sequence 4, Appl1
432	28	66.7	719	1	US-08-286-870A-8	Sequence 8, Appl1	505	27	64.3	130	2	US-09-357-710A-4	Sequence 4, Appl1
433	28	66.7	719	2	US-09-218-942-2	Sequence 2, Appl1	506	27	64.3	130	2	US-09-357-707-4	Sequence 4, Appl1
434	28	66.7	733	2	US-08-910-925-3	Sequence 3, Appl1	507	27	64.3	130	2	US-09-357-708-4	Sequence 4, Appl1
435	28	66.7	743	2	US-09-949-016-6261	Sequence 6261, Ap	508	27	64.3	137	1	US-08-116-776B-3	Sequence 3, Appl1
436	28	66.7	765	2	US-08-737-109-11	Sequence 11, Appl	509	27	64.3	137	1	US-08-438-562-3	Sequence 3, Appl1
437	28	66.7	807	1	US-08-655-345-2	Sequence 2, Appl1	510	27	64.3	137	1	US-08-483-528B-93	Sequence 93, Appl
438	28	66.7	807	2	US-09-183-275-2	Sequence 2, Appl1	511	27	64.3	137	2	US-09-902-540-13184	Sequence 13184, A
439	28	66.7	807	4	PCT-US96-08407-2	Sequence 2, Appl1	512	27	64.3	138	2	US-09-328-352-8007	Sequence 8007, Ap
440	28	66.7	810	2	US-09-949-016-7737	Sequence 7737, Ap	513	27	64.3	139	1	US-08-116-778B-1	Sequence 1, Appl1
441	28	66.7	810	2	US-09-949-016-7738	Sequence 7738, Ap	514	27	64.3	139	1	US-08-438-565-1	Sequence 1, Appl1
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446	28	66.7	841	2	US-10-332-795-11	Sequence 11, Appl	519	27	64.3	144	1	US-08-483-528B-100	Sequence 100, App
447	28	66.7	841	2	US-09-897-427A-2	Sequence 2, Appl1	520	27	64.3	144	2	US-09-393-385B-112	Sequence 112, App
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587	27	64.3	273	2	US-09-673-763-14	Sequence 14, App1	660	27	64.3	518	2	US-08-484-494-15	Sequence 15, App1
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708	27	64.3	984	1	US-08-714-481-2	Sequence 2, Appl1	781	26	61.9	132	2	US-08-434-000A-14	Sequence 14, Appl
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714	27	64.3	1054	2	US-09-949-016-9822	Sequence 9822, App	787	26	61.9	135	1	US-07-634-278-69	Sequence 19, Appl
715	27	64.3	1081	1	US-08-843-330B-18	Sequence 18, Appl	788	26	61.9	135	1	US-08-477-728-19	Sequence 19, Appl
716	27	64.3	1081	1	US-09-636-728-17	Sequence 17, Appl	789	26	61.9	135	1	US-08-477-728-69	Sequence 19, Appl
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720	27	64.3	1117	2	US-09-636-728-30	Sequence 30, Appl	793	26	61.9	135	1	US-08-487-200-69	Sequence 69, Appl
721	27	64.3	1128	2	US-08-923-992A-6	Sequence 6, Appl1	794	26	61.9	135	1	US-08-137-117D-27	Sequence 27, Appl
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ALIGNMENTS

RESULT 1
US-08-787-547-106
; Sequence 106, Application US/08787547
; Patent No. 5783567
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Curley, Joanne M.
; APPLICANT: Langer, Robert S.
; TITLE OF INVENTION: MICROPARTICLES FOR DELIVERY
; TITLE OF INVENTION: OF NUCLEIC ACID
; NUMBER OF SEQUENCES: 107
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/787,547
; FILING DATE: 22-JAN-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janie K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 08191/003001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 106:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide

US-08-787-547-106

Query Match 100.0%; Score 42; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTIGIV 9
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RESULT 2
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; Sequence 1, Application US/08948378A
; Patent No. 6013258
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; APPLICANT: Collins, Edward J.
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM
; TITLE OF INVENTION: THE HPV E7 PROTEIN
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
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; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/948,378A
; FILING DATE: 09-OCT-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janie K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 08191/004001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-543-8906
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Query Match 100.0%; Score 42; DB 2; Length 9;
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QY 1 LLMGTIGIV 9
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RESULT 3
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; Sequence 9, Application US/09124671A
; Patent No. 6160088
; GENERAL INFORMATION:
; APPLICANT: Rothman, James
; APPLICANT: Maynew, Mark

APPLICANT: Hoe, Mee
TITLE OF INVENTION: KDEL RECEPTOR INHIBITORS
FILE REFERENCE: 31488
CURRENT APPLICATION NUMBER: US/09/124,671A
CURRENT FILING DATE: 1998-07-29
NUMBER OF SEQ ID NOS: 42
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 9
LENGTH: 9
TYPE: PRT
ORGANISM: papillomavirus
US-09-124-671-9

Query Match 100.0%; Score 42; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTLGIV 9
Db 1 LLMGTLGIV 9

RESULT 4
US-09-169-425C-1
Sequence 1, Application US/09169425C
Patent No. 6183746
GENERAL INFORMATION:
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
APPLICANT: Collins, Edward J.
APPLICANT: Hedley, Mary Lynn
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/169,425C
FILING DATE: 09-OCT-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/061,657
FILING DATE: 09-OCT-1997
ATTORNEY/AGENT INFORMATION:
NAME: Frazer, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/004002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-543-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-169-425C-1

Query Match 100.0%; Score 42; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 LLMGTLGIV 9

Db 1 LLMGTLGIV 9

RESULT 5
US-08-197-484-65
Sequence 65, Application US/08197484
Patent No. 6419331
GENERAL INFORMATION:
APPLICANT: VITTELLO, Maria A.
APPLICANT: CHRISTNUT, Robert W.
APPLICANT: SETTE, Alessandro D.
APPLICANT: CELIS, Bsteban
APPLICANT: GRAY, Howard
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ELICITING
TITLE OF INVENTION: CTL IMMUNITY
NUMBER OF SEQUENCES: 153
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Townsend and Townsend Kourie and Crew
STREET: Steuart Street Tower, One Market Plaza
CITY: San Francisco
STATE: California
COUNTRY: US
ZIP: 94105-1493
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/197,484
FILING DATE: 16-FEB-1994
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/935,811
FILING DATE: 26-AUG-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/874,491
FILING DATE: 27-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/827,682
FILING DATE: 29-JAN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/749,568
FILING DATE: 26-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: Parmelee, Steven W.
REGISTRATION NUMBER: 31,990
REFERENCE/DOCKET NUMBER: 14137-26-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 467-9600
TELEFAX: (206) 623-6793
INFORMATION FOR SEQ ID NO: 65:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: peptide
US-08-197-484-65

Query Match 100.0%; Score 42; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTLGIV 9
Db 1 LLMGTLGIV 9

RESULT 6
US-09-759-960-1
Sequence 1, Application US/09759960

```
; Patent No. 6582704
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.
; APPLICANT: Chletz, Roman M.
; APPLICANT: Collins, Edward J.
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; City: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/759,960
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/169,425
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; TELEPHONE: 617-542-5070
; TELECOMMUNICATION INFORMATION:
; TELEFAX: 617-543-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-09-759-960-1

Query Match      100.0%; Score 42; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 LLMGTLGIV 9
Db      1 LLMGTLGIV 9

RESULT 7
US-09-601-729-271
; Sequence 271, Application US/09601729
; Patent No. 6683052
; GENERAL INFORMATION:
; APPLICANT: THIAM, KADER
; APPLICANT: AURIAULT, CLAUDE
; APPLICANT: GRAS-MASSE, HELENE
; APPLICANT: LOING, ESTELLE
; APPLICANT: VERMARDE, CLAUDIE
; APPLICANT: GUILLET, JEAN GERARD
; TITLE OF INVENTION: LIPOPEPTIDES CONTAINING AN INTERFERON FRAGMENT AND USES
; FILE REFERENCE: USB-97-AU-IN
; CURRENT APPLICATION NUMBER: US/09/601,729
; CURRENT FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: PCT/FR99/00259
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 98 01439
; PRIOR FILING DATE: 1998-02-06
; NUMBER OF SEQ ID NOS: 281
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; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 271
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; US-09-601-729-271

Query Match      100.0%; Score 42; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 LLMGTLGIV 9
Db      1 LLMGTLGIV 9

RESULT 8
US-10-365-908-5
; Sequence 5, Application US/10365908
; Patent No. 6797491
; GENERAL INFORMATION:
; APPLICANT: Neeffe, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/10/365,908
; CURRENT FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US/09/891,823
; PRIOR FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papilloma virus
; US-10-365-908-5

Query Match      100.0%; Score 42; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 LLMGTLGIV 9
Db      1 LLMGTLGIV 9

RESULT 9
PCT-US95-02121-65
; Sequence 65, Application PC/TUS9502121
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ELICITING
; NUMBER OF SEQUENCES: 153
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/02121
; FILING DATE: 16-FEB-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/197,484
```

RESULT 10
US-10-365-908-47
Sequence 47, Application US/10365908
Patent No. 6797491
GENERAL INFORMATION:
APPLICANT: Neefe, John R.
APPLICANT: Boux, Leslie J.
APPLICANT: Winnett, Mark T.
APPLICANT: Goldstone, Stephen E.
TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
FILE REFERENCE: 12071-003001
CURRENT APPLICATION NUMBER: US/10/365,908
PRIOR FILING DATE: 2003-02-13
PRIOR APPLICATION NUMBER: US/09/891,823
PRIOR FILING DATE: 2001-10-19
PRIOR APPLICATION NUMBER: US 60/214,202
PRIOR FILING DATE: 2000-06-26
NUMBER OF SEQ ID NOS: 140
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 47
LENGTH: 10
TYPE: PRT
ORGANISM: Human papilloma virus
US-10-365-908-47

Query Match 100.0%; Score 42; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LMGTGIV 9
Db 1 LMGTGIV 9

RESULT 11
US-08-948-378A-3
Sequence 3, Application US/08948378A
Patent No. 6013258
GENERAL INFORMATION:
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
APPLICANT: Collins, Edward J.
APPLICANT: Hedley, Mary Lynn
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM
THE HPV E7 PROTEIN
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
ZIP: 02110-2804
COUNTRY: US
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/948,378A
FILING DATE: 09-OCT-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/004001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-543-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 13 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-948-378A-3

Query Match 100.0%; Score 42; DB 2; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LMGTGIV 9
Db 1 LMGTGIV 9

RESULT 12
US-09-169-425C-3
Sequence 3, Application US/09169425C
Patent No. 6183746
GENERAL INFORMATION:
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
APPLICANT: Collins, Edward J.
APPLICANT: Hedley, Mary Lynn
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US

Qy 1 LMGTGIV 9
Db 2 LMGTGIV 10

ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/169,425C
FILING DATE: 09-OCT-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/061,657
FILING DATE: 09-OCT-1997
ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/004002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-543-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 13 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-169-425C-3

Query Match 100.0%; Score 42; DB 2; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.06; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;

QY 1 LLMGTLGIV 9
Db 1 LLMGTLGIV 9

RESULT 13
US-09-759-960-3
Sequence 3, Application US/09759960
Patent No. 6582704
GENERAL INFORMATION:
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
APPLICANT: Collins, Edward J.
APPLICANT: Hedley, Mary Lynn
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
TITLE OF INVENTION: PROTEIN
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/759,960
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/169,425
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/004002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070

TELEFAX: 617-543-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 13 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-759-960-3

Query Match 100.0%; Score 42; DB 2; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.06; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;

QY 1 LLMGTLGIV 9
Db 1 LLMGTLGIV 9

RESULT 14
US-09-169-425C-25
Sequence 25, Application US/09169425C
Patent No. 6183746
GENERAL INFORMATION:
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
APPLICANT: Collins, Edward J.
APPLICANT: Hedley, Mary Lynn
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
TITLE OF INVENTION: PROTEIN
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/169,425C
FILING DATE: 09-OCT-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/061,657
FILING DATE: 09-OCT-1997
ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/004002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-543-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-169-425C-25

Query Match 100.0%; Score 42; DB 2; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.076; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;

QY 1 LLMGTLGIV 9
Db 1 LLMGTLGIV 9

RESULT 15
US-09-759-960-25
; Sequence 25, Application US/09759960
; Patent No. 6582704
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; APPLICANT: Collins, Edward J.
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/759,960
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/169,425
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Frazer, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 08191/004002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-543-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 16 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-759-960-25
Query Match 100.0%; Score 42; DB 2; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.076;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 LMGTLGIV 9
Db 1 LMGTLGIV 9
RESULT 16
US-09-980-523A-18
; Sequence 18, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANINNE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCIENE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE B6 AND E7
; TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
; FILE REFERENCE: WO/01/00100
; CURRENT APPLICATION NUMBER: US/09/980,523A
; CURRENT FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: PCT/FR00/01513

; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: FR 99/07012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
; LENGTH: 19
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-09-980-523A-18
Query Match 100.0%; Score 42; DB 2; Length 19;
Best Local Similarity 100.0%; Pred. No. 0.091;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 LMGTLGIV 9
Db 4 LMGTLGIV 12
RESULT 17
US-08-075-541D-50
; Sequence 50, Application US/08075541D
; Patent No. 6183745
; GENERAL INFORMATION:
; APPLICANT: TINDLE, ROBERT
; APPLICANT: FERNANDO, GERMAIN
; APPLICANT: FRAZER, IAN
; TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
; TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
; NUMBER OF SEQUENCES: 56
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
; STREET: 1601 MARKET STREET, 36TH FLOOR
; CITY: PHILADELPHIA
; STATE: PENNSYLVANIA
; COUNTRY: USA
; ZIP: 19103-2398
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/075,541D
; FILING DATE: 10-JUN-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: AU pk 3876
; FILING DATE: 12-DEC-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: pce/au91/00575
; FILING DATE: 12-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: NADEL, ALAN S.
; REGISTRATION NUMBER: 27,363
; REFERENCE/DOCKET NUMBER: 8795-4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-567-2020
; TELEFAX: 215-567-2991
; INFORMATION FOR SEQ ID NO: 50:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-075-541D-50
Query Match 100.0%; Score 42; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.097;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LLMGTLGIV 9
| | | | |
Db 12 LLMGTLGIV 20

RESULT 20

US-09-794-517A-12
; Sequence 12, Application US/09794517A

; Patent No. 6656679

; GENERAL INFORMATION:

APPLICANT: Sloan-Kettering Institute for Cancer Research

ROTHMAN, James E.

HARTL, F. Ulrich

HOE, Mee H.

HOUGHTON, Alan

TAKECHI, Yoshizumi

MAYHEW, Mark

TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies

NUMBER OF SEQUENCES: 30

CORRESPONDENCE ADDRESS:

ADDRESSEE: Kenyon & Kenyon

STREET: One Broadway

CITY: New York

STATE: NY

COUNTRY: US

ZIP: 10004

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage

COMPUTER: IBM compatible

OPERATING SYSTEM: MS DOS

SOFTWARE: Word Perfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/794.517A

FILING DATE: 19-Oct-2001

CLASSIFICATION: 536

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 60/002.479

FILING DATE: August 18, 1995

APPLICATION NUMBER: 60/002.490

FILING DATE: August 18, 1995

APPLICATION NUMBER: PCT/US96/13363

FILING DATE: August 16, 1996

APPLICATION NUMBER: 09/011.645

FILING DATE: February 13, 1998

ATTORNEY/AGENT INFORMATION:

NAME: Delucia, Richard L.

REGISTRATION NUMBER: 28,839

REFERENCE/DOCKET NUMBER: 11746/13

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 425-7200

TELEFAX: (212) 425-5288

TELEX: <Unknown>

INFORMATION FOR SEQ ID NO: 12:

SEQUENCE CHARACTERISTICS:

LENGTH: 20

TYPE: amino acid

STRANDEDNESS: <Unknown>

TOPOLOGY: linear

MOLECULE TYPE: peptide

HYPOTHETICAL: yes

FRAGMENT TYPE: internal

ORIGINAL SOURCE:

ORGANISM: <Unknown>

FEATURE:

OTHER INFORMATION: hybrid peptide for human papilloma

virus vaccine

SEQUENCE DESCRIPTION: SEQ ID NO: 12:

Best Local Similarity 100.0%; Pred. No. 0.097;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LLMGTLGIV 9
| | | | |
Db 1 LLMGTLGIV 9

RESULT 21

US-09-794-517A-13

; Sequence 13, Application US/09794517A

; Patent No. 6656679

; GENERAL INFORMATION:

APPLICANT: Sloan-Kettering Institute for Cancer Research

ROTHMAN, James E.

HARTL, F. Ulrich

HOE, Mee H.

HOUGHTON, Alan

TAKECHI, Yoshizumi

MAYHEW, Mark

TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies

NUMBER OF SEQUENCES: 30

CORRESPONDENCE ADDRESS:

ADDRESSEE: Kenyon & Kenyon

STREET: One Broadway

CITY: New York

STATE: NY

COUNTRY: US

ZIP: 10004

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage

COMPUTER: IBM compatible

OPERATING SYSTEM: MS DOS

SOFTWARE: Word Perfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/794.517A

FILING DATE: 19-Oct-2001

CLASSIFICATION: 536

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 60/002.479

FILING DATE: August 18, 1995

APPLICATION NUMBER: 60/002.490

FILING DATE: August 18, 1995

APPLICATION NUMBER: PCT/US96/13363

FILING DATE: August 16, 1996

APPLICATION NUMBER: 09/011.645

FILING DATE: February 13, 1998

ATTORNEY/AGENT INFORMATION:

NAME: Delucia, Richard L.

REGISTRATION NUMBER: 28,839

REFERENCE/DOCKET NUMBER: 11746/13

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 425-7200

TELEFAX: (212) 425-5288

TELEX: <Unknown>

INFORMATION FOR SEQ ID NO: 13:

SEQUENCE CHARACTERISTICS:

LENGTH: 20

TYPE: amino acid

STRANDEDNESS: <Unknown>

TOPOLOGY: linear

MOLECULE TYPE: peptide

HYPOTHETICAL: yes

FRAGMENT TYPE: internal

ORIGINAL SOURCE:

ORGANISM: <Unknown>

FEATURE:

OTHER INFORMATION: hybrid peptide for human papilloma

virus vaccine

SEQUENCE DESCRIPTION: SEQ ID NO: 13:

US-09-794-517A-13

Query Match 100.0%; Score 42; DB 2; Length 20;

Query Match 100.0%; Score 42; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.097;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTGLGIV 9
12 LLMGTGLGIV 20

RESULT 22

US-09-011-645E-12
Sequence 12, Application US/09011645E

Patent No. 6663868

GENERAL INFORMATION:

APPLICANT: Sloan-Kettering Institute for Cancer Research

ROTHMAN, James E.

HARTL, F. Ulrich

HOUGHTON, Alan

TAKECHI, Yoshizumi

MAYHEW, Mark

TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies

NUMBER OF SEQUENCES: 30

CORRESPONDENCE ADDRESS:

ADDRESSEE: Kenyon & Kenyon

STREET: One Broadway

CITY: New York

STATE: NY

COUNTRY: US

ZIP: 10004

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage

COMPUTER: IBM compatible

OPERATING SYSTEM: MS DOS

SOFTWARE: Word Perfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/011.645E

FILING DATE: 13-Feb-1998

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 60/002,479

FILING DATE: August 18, 1995

APPLICATION NUMBER: 60/002,490

FILING DATE: August 18, 1995

APPLICATION NUMBER: PCT/US96/13363

FILING DATE: August 16, 1996

ATTORNEY/AGENT INFORMATION:

NAME: Delucia, Richard L.

REGISTRATION NUMBER: 28,839

REFERENCE/DOCKET NUMBER: 11746/1

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 425-7200

TELEFAX: (212) 425-5288

TELEX: <Unknown>

INFORMATION FOR SEQ ID NO: 12:

SEQUENCE CHARACTERISTICS:

LENGTH: 20

TYPE: amino acid

STRANDEDNESS: <Unknown>

TOPOLOGY: linear

MOLECULE TYPE: peptide

HYPOTHETICAL: yes

FRAGMENT TYPE: internal

ORIGINAL SOURCE:

ORGANISM: <Unknown>

FEATURE:

OTHER INFORMATION: hybrid peptide for human papilloma

virus vaccine

SEQUENCE DESCRIPTION: SEQ ID NO: 12:

US-09-011-645E-12

Query Match 100.0%; Score 42; DB 2; Length 20;

Best Local Similarity 100.0%; Pred. No. 0.097;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTGLGIV 9
1 LLMGTGLGIV 9

RESULT 23

US-09-011-645E-13
Sequence 13, Application US/09011645E

Patent No. 6663868

GENERAL INFORMATION:

APPLICANT: Sloan-Kettering Institute for Cancer Research

ROTHMAN, James E.

HARTL, F. Ulrich

HOE, Mee H.

HOUGHTON, Alan

TAKECHI, Yoshizumi

MAYHEW, Mark

TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies

NUMBER OF SEQUENCES: 30

CORRESPONDENCE ADDRESS:

ADDRESSEE: Kenyon & Kenyon

STREET: One Broadway

CITY: New York

STATE: NY

COUNTRY: US

ZIP: 10004

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage

COMPUTER: IBM compatible

OPERATING SYSTEM: MS DOS

SOFTWARE: Word Perfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/011.645E

FILING DATE: 13-Feb-1998

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 60/002,479

FILING DATE: August 18, 1995

APPLICATION NUMBER: 60/002,490

FILING DATE: August 18, 1995

APPLICATION NUMBER: PCT/US96/13363

FILING DATE: August 16, 1996

ATTORNEY/AGENT INFORMATION:

NAME: Delucia, Richard L.

REGISTRATION NUMBER: 28,839

REFERENCE/DOCKET NUMBER: 11746/1

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 425-7200

TELEFAX: (212) 425-5288

TELEX: <Unknown>

INFORMATION FOR SEQ ID NO: 13:

SEQUENCE CHARACTERISTICS:

LENGTH: 20

TYPE: amino acid

STRANDEDNESS: <Unknown>

TOPOLOGY: linear

MOLECULE TYPE: peptide

HYPOTHETICAL: yes

FRAGMENT TYPE: internal

ORIGINAL SOURCE:

ORGANISM: <Unknown>

FEATURE:

OTHER INFORMATION: hybrid peptide for human papilloma

virus vaccine

SEQUENCE DESCRIPTION: SEQ ID NO: 13:

US-09-011-645E-13

Query Match 100.0%; Score 42; DB 2; Length 20;

Best Local Similarity 100.0%; Pred. No. 0.097;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LLMGTLGIV 9
| | | | | | | | | |
Db 12 LLMGTLGIV 20

RESULT 24

US-09-794-832-12
; Sequence 12, Application US/09794832
; Patent No. 6673348

GENERAL INFORMATION:

APPLICANT: Sloan-Kettering Institute for Cancer Research

ROTHMAN, James E.

HARTL, F. Ulrich

HOE, Mee H.

HOUGHTON, Alan

TAKECHI, Yoshizumi

MAYHEW, Mark

TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies

NUMBER OF SEQUENCES: 30

CORRESPONDENCE ADDRESS:

ADDRESSEE: Kenyon & Kenyon

STREET: One Broadway

CITY: New York

STATE: NY

COUNTRY: US

ZIP: 10004

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage

COMPUTER: IBM compatible

OPERATING SYSTEM: MS DOS

SOFTWARE: Word Perfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/794,832

FILING DATE: 27-Feb-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/011,645

FILING DATE: 13-Feb-1998

APPLICATION NUMBER: 60/002,479

FILING DATE: August 18, 1995

APPLICATION NUMBER: 60/002,490

FILING DATE: August 18, 1995

APPLICATION NUMBER: PCT/US96/13363

FILING DATE: August 16, 1996

ATTORNEY/AGENT INFORMATION:

NAME: Delucia, Richard L.

REGISTRATION NUMBER: 28,839

REFERENCE/DOCKET NUMBER: 11746/1

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 425-7200

TELEFAX: (212) 425-5288

TELEX: <Unknown>

INFORMATION FOR SEQ ID NO: 12:

SEQUENCE CHARACTERISTICS:

LENGTH: 20

TYPE: amino acid

STRANDEDNESS: <Unknown>

TOPOLOGY: linear

MOLECULE TYPE: peptide

HYPOTHETICAL: yes

FRAGMENT TYPE: internal

ORIGINAL SOURCE:

ORGANISM: <Unknown>

FEATURE:

OTHER INFORMATION: hybrid peptide for human papilloma

virus vaccine

SEQUENCE DESCRIPTION: SEQ ID NO: 12:

US-09-794-832-12

Query Match 100.0%; Score 42; DB 2; Length 20;

Best Local Similarity 100.0%; Pred. No. 0.097;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LLMGTLGIV 9
| | | | | | | | | |
Db 1 LLMGTLGIV 9

RESULT 25

US-09-794-832-13
; Sequence 13, Application US/09794832
; Patent No. 6673348

GENERAL INFORMATION:

APPLICANT: Sloan-Kettering Institute for Cancer Research

ROTHMAN, James E.

HARTL, F. Ulrich

HOE, Mee H.

HOUGHTON, Alan

TAKECHI, Yoshizumi

MAYHEW, Mark

TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies

NUMBER OF SEQUENCES: 30

CORRESPONDENCE ADDRESS:

ADDRESSEE: Kenyon & Kenyon

STREET: One Broadway

CITY: New York

STATE: NY

COUNTRY: US

ZIP: 10004

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage

COMPUTER: IBM compatible

OPERATING SYSTEM: MS DOS

SOFTWARE: Word Perfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/794,832

FILING DATE: 27-Feb-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/011,645

FILING DATE: 13-Feb-1998

APPLICATION NUMBER: 60/002,479

FILING DATE: August 18, 1995

APPLICATION NUMBER: 60/002,490

FILING DATE: August 18, 1995

APPLICATION NUMBER: PCT/US96/13363

FILING DATE: August 16, 1996

ATTORNEY/AGENT INFORMATION:

NAME: Delucia, Richard L.

REGISTRATION NUMBER: 28,839

REFERENCE/DOCKET NUMBER: 11746/1

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 425-7200

TELEFAX: (212) 425-5288

TELEX: <Unknown>

INFORMATION FOR SEQ ID NO: 13:

SEQUENCE CHARACTERISTICS:

LENGTH: 20

TYPE: amino acid

STRANDEDNESS: <Unknown>

TOPOLOGY: linear

MOLECULE TYPE: peptide

HYPOTHETICAL: yes

FRAGMENT TYPE: internal

ORIGINAL SOURCE:

ORGANISM: <Unknown>

FEATURE:

OTHER INFORMATION: hybrid peptide for human papilloma

virus vaccine

SEQUENCE DESCRIPTION: SEQ ID NO: 13:

US-09-794-832-13

Query Match 100.0%; Score 42; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.097;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 LLMGTGIV 9
12 LLMGTGIV 20
DB

RESULT 26
US-09-680-806A-12
; Sequence 12, Application US/09680806A
; Patent No. 6719974
; GENERAL INFORMATION:
; APPLICANT: Sloan-Kettering Institute for Cancer Research
; ROTHMAN, James E.
; HARTL, F. Ulrich
; HOE, Mee H.
; HOUGHTON, Alan
; TAKECHI, Yoshizumi
; MAYHEW, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and
; Immunotherapies
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Kenyon & Kenyon
; STREET: One Broadway
; CITY: New York
; STATE: NY
; COUNTRY: US
; ZIP: 10004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS DOS
; SOFTWARE: Word Perfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/680,806A
; FILING DATE: 05-Oct-2000
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/002,479
; FILING DATE: August 18, 1995
; APPLICATION NUMBER: 60/002,490
; FILING DATE: August 18, 1995
; APPLICATION NUMBER: PCT/US96/13363
; FILING DATE: August 16, 1996
; APPLICATION NUMBER: 09/011,645
; FILING DATE: February 13, 1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Delucia, Richard L.
; REGISTRATION NUMBER: 28,839
; REFERENCE/DOCKET NUMBER: 11746/10
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 425-7200
; TELEFAX: (212) 425-5288
; TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: yes
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; ORGANISM: <Unknown>
; FEATURE:
; OTHER INFORMATION: hybrid peptide for human papilloma
; virus vaccine
; SEQUENCE DESCRIPTION: SEQ ID NO: 12:
; US-09-680-806A-12

Query Match 100.0%; Score 42; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.097;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 LLMGTGIV 9
1 LLMGTGIV 9
DB

RESULT 27
US-09-680-806A-13
; Sequence 13, Application US/09680806A
; Patent No. 6719974
; GENERAL INFORMATION:
; APPLICANT: Sloan-Kettering Institute for Cancer Research
; ROTHMAN, James E.
; HARTL, F. Ulrich
; HOE, Mee H.
; HOUGHTON, Alan
; TAKECHI, Yoshizumi
; MAYHEW, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and
; Immunotherapies
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Kenyon & Kenyon
; STREET: One Broadway
; CITY: New York
; STATE: NY
; COUNTRY: US
; ZIP: 10004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS DOS
; SOFTWARE: Word Perfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/680,806A
; FILING DATE: 05-Oct-2000
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/002,479
; FILING DATE: August 18, 1995
; APPLICATION NUMBER: 60/002,490
; FILING DATE: August 18, 1995
; APPLICATION NUMBER: PCT/US96/13363
; FILING DATE: August 16, 1996
; APPLICATION NUMBER: 09/011,645
; FILING DATE: February 13, 1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Delucia, Richard L.
; REGISTRATION NUMBER: 28,839
; REFERENCE/DOCKET NUMBER: 11746/10
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 425-7200
; TELEFAX: (212) 425-5288
; TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: yes
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; ORGANISM: <Unknown>
; FEATURE:
; OTHER INFORMATION: hybrid peptide for human papilloma
; virus vaccine
; SEQUENCE DESCRIPTION: SEQ ID NO: 13:
; US-09-680-806A-12

US-09-680-806A-13

Query Match 100.0%; Score 42; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.097;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTLGIV 9
12 LLMGTLGIV 20

RESULT 28

US-09-552-868-12
Sequence 12, Application US/09552868
Patent No. 6761892

GENERAL INFORMATION:

APPLICANT: Sloan-Kettering Institute for Cancer Research

ROTHMAN, James E.

HARTL, F. Ulrich

HOE, Mee H.

HOUGHTON, Alan

TAKECHI, Yoshizumi

MAYHEW, Mark

TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and
Immunotherapies

NUMBER OF SEQUENCES: 30

CORRESPONDENCE ADDRESS:

ADDRESSEE: Kenyon & Kenyon

STREET: One Broadway

CITY: New York

STATE: NY

COUNTRY: US

ZIP: 10004

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette - 3.5 inch, 1.44 MB storage

COMPUTER: IBM compatible

OPERATING SYSTEM: MS DOS

SOFTWARE: Word Perfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/552,868

FILING DATE: 20-Apr-2000

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 60/002,479

FILING DATE: August 18, 1995

APPLICATION NUMBER: 60/002,490

FILING DATE: August 18, 1995

APPLICATION NUMBER: PCT/US96/13363

FILING DATE: August 16, 1996

APPLICATION NUMBER: 09/011,645

FILING DATE: February 13, 1998

ATTORNEY/AGENT INFORMATION:

NAME: Delucia, Richard L.

REGISTRATION NUMBER: 28,839

REFERENCE/DOCKET NUMBER: 11746/8

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 425-7200

TELEFAX: (212) 425-5288

TELEX: <Unknown>

INFORMATION FOR SEQ ID NO: 12:

SEQUENCE CHARACTERISTICS:

LENGTH: 20

TYPE: amino acid

STRANDEDNESS: <Unknown>

TOPOLOGY: linear

MOLECULE TYPE: peptide

HYPOTHETICAL: yes

FRAGMENT TYPE: internal

ORIGINAL SOURCE:

ORGANISM: <Unknown>

FEATURE:

OTHER INFORMATION: hybrid peptide for human papilloma

virus vaccine

value vaccine

SEQUENCE DESCRIPTION: SEQ ID NO: 12:

Query Match 100.0%; Score 42; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.097;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTLGIV 9
1 LLMGTLGIV 9

RESULT 29

US-09-552-868-13
Sequence 13, Application US/09552868
Patent No. 6761892

GENERAL INFORMATION:

APPLICANT: Sloan-Kettering Institute for Cancer Research

ROTHMAN, James E.

HARTL, F. Ulrich

HOE, Mee H.

HOUGHTON, Alan

TAKECHI, Yoshizumi

MAYHEW, Mark

TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and
Immunotherapies

NUMBER OF SEQUENCES: 30

CORRESPONDENCE ADDRESS:

ADDRESSEE: Kenyon & Kenyon

STREET: One Broadway

CITY: New York

STATE: NY

COUNTRY: US

ZIP: 10004

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette - 3.5 inch, 1.44 MB storage

COMPUTER: IBM compatible

OPERATING SYSTEM: MS DOS

SOFTWARE: Word Perfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/552,868

FILING DATE: 20-Apr-2000

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 60/002,479

FILING DATE: August 18, 1995

APPLICATION NUMBER: 60/002,490

FILING DATE: August 18, 1995

APPLICATION NUMBER: PCT/US96/13363

FILING DATE: August 16, 1996

APPLICATION NUMBER: 09/011,645

FILING DATE: February 13, 1998

ATTORNEY/AGENT INFORMATION:

NAME: Delucia, Richard L.

REGISTRATION NUMBER: 28,839

REFERENCE/DOCKET NUMBER: 11746/8

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 425-7200

TELEFAX: (212) 425-5288

TELEX: <Unknown>

INFORMATION FOR SEQ ID NO: 13:

SEQUENCE CHARACTERISTICS:

LENGTH: 20

TYPE: amino acid

STRANDEDNESS: <Unknown>

TOPOLOGY: linear

MOLECULE TYPE: peptide

HYPOTHETICAL: yes

FRAGMENT TYPE: internal

ORIGINAL SOURCE:

ORGANISM: <Unknown>

FEATURE:

OTHER INFORMATION: hybrid peptide for human papilloma

virus vaccine

value vaccine

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;
;      OTHER INFORMATION: hybrid peptide for human papilloma
;      virus vaccine
;      SEQUENCE DESCRIPTION: SEQ ID NO: 13:
US-09-552-868-13
Query Match      100.0%; Score 42; DB 2; Length 20;
Best Local Similarity 100.0%; Pred.No.0.097;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 LLMGTIGIV 9
        |||||
Db       12 LLMGTIGIV 20

RESULT 30
US-09-636-295-12
; Sequence 12, Application US/09636295
; Patent No. 6773707
; GENERAL INFORMATION:
; APPLICANT: Sloan-Kettering Institute for Cancer Research
;      ROTHMAN, James E.
;      HARTL, F. Ulrich
;      HOE, Mee H.
;      HOUGHTON, Alan
;      TAKECHI, Yoshizumi
;      MAYHEW, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and
;      Immunotherapies
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Kenyon & Kenyon
; STREET: One Broadway
; CITY: New York
; STATE: NY
; COUNTRY: US
; ZIP: 10004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS DOS
; SOFTWARE: Word Perfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/636,295
; FILING DATE: 10-Aug-2000
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/002,479
; FILING DATE: August 18, 1995
; APPLICATION NUMBER: 60/002,490
; FILING DATE: August 18, 1995
; APPLICATION NUMBER: PCT/US96/13363
; FILING DATE: August 16, 1996
; APPLICATION NUMBER: 09/011,645
; FILING DATE: February 13, 1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Delucia, Richard L.
; REGISTRATION NUMBER: 28,839
; REFERENCE/DOCKET NUMBER: 11746/9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 425-7200
; TELEFAX: (212) 425-5288
; TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: yes
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; ORGANISM: <Unknown>
; FEATURE:
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;
;      OTHER INFORMATION: hybrid peptide for human papilloma
;      virus vaccine
;      SEQUENCE DESCRIPTION: SEQ ID NO: 12:
US-09-636-295-12
Query Match      100.0%; Score 42; DB 2; Length 20;
Best Local Similarity 100.0%; Pred.No.0.097;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 LLMGTIGIV 9
        |||||
Db       1 LLMGTIGIV 9

RESULT 31
US-09-636-295-13
; Sequence 13, Application US/09636295
; Patent No. 6773707
; GENERAL INFORMATION:
; APPLICANT: Sloan-Kettering Institute for Cancer Research
;      ROTHMAN, James E.
;      HARTL, F. Ulrich
;      HOE, Mee H.
;      HOUGHTON, Alan
;      TAKECHI, Yoshizumi
;      MAYHEW, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and
;      Immunotherapies
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Kenyon & Kenyon
; STREET: One Broadway
; CITY: New York
; STATE: NY
; COUNTRY: US
; ZIP: 10004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS DOS
; SOFTWARE: Word Perfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/636,295
; FILING DATE: 10-Aug-2000
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/002,479
; FILING DATE: August 18, 1995
; APPLICATION NUMBER: 60/002,490
; FILING DATE: August 18, 1995
; APPLICATION NUMBER: PCT/US96/13363
; FILING DATE: August 16, 1996
; APPLICATION NUMBER: 09/011,645
; FILING DATE: February 13, 1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Delucia, Richard L.
; REGISTRATION NUMBER: 28,839
; REFERENCE/DOCKET NUMBER: 11746/9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 425-7200
; TELEFAX: (212) 425-5288
; TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: yes
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; ORGANISM: <Unknown>
; FEATURE:
;

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FEATURE:
OTHER INFORMATION: hybrid peptide for human papilloma
virus vaccine
SEQUENCE DESCRIPTION: SEQ ID NO: 13:
US-09-636-295-13

Query Match 100.0%; Score 42; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.097;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTLGIV 9
|||||
DB 12 LLMGTLGIV 20

RESULT 32
US-08-934-915-50
Sequence 50, Application US/08934915
Patent No. 5932412

GENERAL INFORMATION:
APPLICANT: DILLNER, JOAKIM
APPLICANT: DILLNER, LENA
TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
TITLE OF INVENTION: DIAGNOSTIC PURPOSES
NUMBER OF SEQUENCES: 193
CORRESPONDENCE ADDRESS:
ADDRESSEE: MASON & ASSOCIATES, P.A.
STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
CITY: CLEARWATER
STATE: FLORIDA
COUNTRY: U.S.A.

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 3.0
SOFTWARE: Microsoft Word 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/934,915
FILING DATE: 22-SEP-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/949,836

ATTORNEY/AGENT INFORMATION:
NAME: LOUISE A. Foutch
REGISTRATION NUMBER: 37,133
REFERENCE/DOCKET NUMBER: 1946.6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 813-538-3800
TELEFAX: 813-538-3820
TELEX:
INFORMATION FOR SEQ ID NO: 50:
SEQUENCE CHARACTERISTICS:
LENGTH: 21 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-934-915-50

Query Match 100.0%; Score 42; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTLGIV 9
|||||
DB 5 LLMGTLGIV 13

RESULT 33

US-08-934-915-157
Sequence 157, Application US/08934915
Patent No. 5932412

GENERAL INFORMATION:
APPLICANT: DILLNER, JOAKIM
APPLICANT: DILLNER, LENA
TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
TITLE OF INVENTION: DIAGNOSTIC PURPOSES
NUMBER OF SEQUENCES: 193
CORRESPONDENCE ADDRESS:
ADDRESSEE: MASON & ASSOCIATES, P.A.
STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
CITY: CLEARWATER
STATE: FLORIDA
COUNTRY: U.S.A.

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 3.0
SOFTWARE: Microsoft Word 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/934,915
FILING DATE: 22-SEP-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/949,836

ATTORNEY/AGENT INFORMATION:
NAME: LOUISE A. Foutch
REGISTRATION NUMBER: 37,133
REFERENCE/DOCKET NUMBER: 1946.6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 813-538-3800
TELEFAX: 813-538-3820
TELEX:
INFORMATION FOR SEQ ID NO: 157:
SEQUENCE CHARACTERISTICS:
LENGTH: 21 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-934-915-157

Query Match 100.0%; Score 42; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTLGIV 9
|||||
DB 5 LLMGTLGIV 13

RESULT 34
US-09-980-177A-76
Sequence 76, Application US/09980177A
Patent No. 6838084

GENERAL INFORMATION:
APPLICANT: Jochmus, Ingrid
APPLICANT: Nieland, John
TITLE OF INVENTION: Cytotoxic T-Cell Epitopes of the
TITLE OF INVENTION: Papilloma Virus 11-Protein and use thereof in diagnosis and
TITLE OF INVENTION: Therapy
FILE REFERENCE: 50125/036001
CURRENT APPLICATION NUMBER: US/09/980,177A
CURRENT FILING DATE: 2001-11-29
PRIOR APPLICATION NUMBER: PCT/EP00/05006
PRIOR FILING DATE: 2000-05-31
PRIOR APPLICATION NUMBER: DE 19925199.1
PRIOR FILING DATE: 1999-06-01

NUMBER OF SEQ ID NOS: 77
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 76
LENGTH: 21
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-09-980-177A-76

Query Match 100.0%; Score 42; DB 2; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTGLIV 9
DB 5 LLMGTGLIV 13

RESULT 35

US-08-075-541D-40
Sequence 40, Application US/08075541D
Patent No. 6183745
GENERAL INFORMATION:
APPLICANT: TINDLE, ROBERT
APPLICANT: FERNANDO, GERMAIN
APPLICANT: FRAZER, IAN
TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
NUMBER OF SEQUENCES: 56
CORRESPONDENCE ADDRESSES:
ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
STREET: 1601 MARKET STREET, 36TH FLOOR
CITY: PHILADELPHIA
STATE: PENNSYLVANIA
COUNTRY: USA
ZIP: 19103-2398
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/075,541D
FILING DATE: 10-JUN-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: AU pk 3876
FILING DATE: 12-DEC-1990
PRIOR APPLICATION DATA: pct/au91/00575
APPLICATION NUMBER: pct/au91/00575
FILING DATE: 12-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: NADEL, ALAN S
REGISTRATION NUMBER: 27,363
REFERENCE/DOCKET NUMBER: 8795-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-567-2020
TELEFAX: 215-567-2991
INFORMATION FOR SEQ ID NO: 40:
SEQUENCE CHARACTERISTICS:
LENGTH: 26 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-075-541D-40

Query Match 100.0%; Score 42; DB 2; Length 26;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTGLIV 9
DB 11 LLMGTGLIV 19

RESULT 36

US-09-486-394-5
Sequence 5, Application US/09486394
Patent No. 6478749
GENERAL INFORMATION:
APPLICANT: HOPEL, Reinhard
TITLE OF INVENTION: Diagnostic Kit for Skin Tests, and Method
FILE REFERENCE: 032929-001
CURRENT APPLICATION NUMBER: US/09/486,394
CURRENT FILING DATE: 2000-06-20
PRIOR APPLICATION NUMBER: PCT/EP98/04773
PRIOR FILING DATE: 1998-07-30
PRIOR APPLICATION NUMBER: DE 197 37 409.3
PRIOR FILING DATE: 1997-08-27
NUMBER OF SEQ ID NOS: 6
SOFTWARE: Patentin version 3.1
SEQ ID NO 5
LENGTH: 28
TYPE: PRT
ORGANISM: Human papillomavirus type 16
FEATURE:
NAME/KEY: PEPTIDE
LOCATION: (1)..(28)
OTHER INFORMATION: E7 peptide.
US-09-486-394-5

Query Match 100.0%; Score 42; DB 2; Length 28;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTGLIV 9
DB 12 LLMGTGLIV 20

RESULT 37

US-08-934-915-54
Sequence 54, Application US/08934915
Patent No. 5932412
GENERAL INFORMATION:
APPLICANT: DILLNER, JOAKIM
APPLICANT: DILLNER, LENA
APPLICANT: CHENG, HWEE-MING
TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
TITLE OF INVENTION: DIAGNOSTIC PURPOSES
NUMBER OF SEQUENCES: 193
CORRESPONDENCE ADDRESSES:
ADDRESSEE: MASON & ASSOCIATES, P.A.
STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
CITY: CLEARWATER
STATE: FLORIDA
COUNTRY: U.S.A.
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 3.0
SOFTWARE: Microsoft Word 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/934,915
FILING DATE: 22-SEP-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/949,836
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: LOUISE A. FOUTCH
REGISTRATION NUMBER: 37,133
REFERENCE/DOCKET NUMBER: 1946.6

TELECOMMUNICATION INFORMATION:
TELEPHONE: 813-538-3800
TELEFAX: 813-538-3820
TELEX:
INFORMATION FOR SEQ ID NO: 54:
SEQUENCE CHARACTERISTICS:
LENGTH: 30 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-934-915-54

Query Match 100.0%; Score 42; DB 1; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTLGIV 9
|||||
Db 14 LLMGTLGIV 22

RESULT 38
US-09-486-394-4
Sequence 4, Application US/09486394
Patent No. 6478749
GENERAL INFORMATION:
APPLICANT: Hopfl, Reinhard
TITLE OF INVENTION: Diagnostic Kit for Skin Tests, and Method
FILE REFERENCE: 032929-001
CURRENT APPLICATION NUMBER: US/09/486,394
PRIOR FILING DATE: 2000-06-20
PRIOR APPLICATION NUMBER: PCT/EP98/04773
PRIOR FILING DATE: 1998-07-30
PRIOR APPLICATION NUMBER: DE 197 37 409.3
PRIOR FILING DATE: 1997-08-27
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn version 3.1
SEQ ID NO 4
LENGTH: 30
TYPE: PRT
ORGANISM: Human papillomavirus type 16
FEATURE:
NAME/KEY: PEPTIDE
LOCATION: (1)..(30)
OTHER INFORMATION: E7 peptide.
US-09-486-394-4

Query Match 100.0%; Score 42; DB 2; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTLGIV 9
|||||
Db 22 LLMGTLGIV 30

RESULT 39
US-09-390-027-6
Sequence 6, Application US/09390027
Patent No. 6235523
GENERAL INFORMATION:
APPLICANT: GAJEWCZYK, Diane M.
APPLICANT: PERSSON, Roy
APPLICANT: YAO, Fei-long
APPLICANT: CAO, Shi-xian
APPLICANT: KLEIN, Michael H.
APPLICANT: TARTAGLIA, James
APPLICANT: MOINGEON, Philippe
APPLICANT: ROVINSKI, Benjamin
TITLE OF INVENTION: TREATMENT OF CERVICAL CANCER
FILE REFERENCE: 1038-982 MIS:jdb
CURRENT APPLICATION NUMBER: US/09/390,027
CURRENT FILING DATE: 1999-09-03

EARLIER APPLICATION NUMBER: 60/099,291
EARLIER FILING DATE: 1998-09-04
NUMBER OF SEQ ID NOS: 12
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 6
LENGTH: 59
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-390-027-6

Query Match 100.0%; Score 42; DB 2; Length 59;
Best Local Similarity 100.0%; Pred. No. 0.32;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTLGIV 9
|||||
Db 27 LLMGTLGIV 35

RESULT 40
US-08-406-248-6
Sequence 6, Application US/08406248
Patent No. 5736318
GENERAL INFORMATION:
APPLICANT: Munger, Karl
APPLICANT: Jones, D. Leanne
TITLE OF INVENTION: METHOD AND KIT FOR EVALUATING
TITLE OF INVENTION: TRANSFORMED CELLS
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Ann-Louise Kerner, Ph.D., Lappin & Kusner
STREET: 200 State Street
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/406,248
FILING DATE:
CLASSIFICATION: 436
ATTORNEY/AGENT INFORMATION:
NAME: McDaniels, Patricia A.
REGISTRATION NUMBER: 33,194
REFERENCE/DOCKET NUMBER: HAZ-011
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-330-1300
TELEFAX: 617-330-1311
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-406-248-6

Query Match 100.0%; Score 42; DB 1; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.56;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTLGIV 9
|||||
Db 82 LLMGTLGIV 90

RESULT 41
US-08-075-541D-42

```
; Sequence 42, Application US/0807541D
; Patent No. 6183745
; GENERAL INFORMATION:
; APPLICANT: TINDLE, ROBERT
; APPLICANT: FERNANDO, GERMAIN
; APPLICANT: FRAZER, IAN
; TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
; TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
; NUMBER OF SEQUENCES: 56
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P. C.
; STREET: 1601 MARKET STREET, 36TH FLOOR
; CITY: PHILADELPHIA
; STATE: PENNSYLVANIA
; COUNTRY: USA
; ZIP: 19103-2398
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/075,541D
; FILING DATE: 10-JUN-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: AU pk 3876
; FILING DATE: 12-DEC-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: pct/au91/00575
; FILING DATE: 12-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: NADEL, ALAN S
; REGISTRATION NUMBER: 27,363
; REFERENCE/DOCKET NUMBER: 8795-4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-567-2020
; TELEFAX: 215-567-2991
; INFORMATION FOR SEQ ID NO: 42:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-075-541D-42

Query Match          100.0%; Score 42; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.56; 0; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY      1 LLMGTGLGIV 9
      |||||
Db      82 LLMGTGLGIV 90

RESULT 42
US-09-382-616A-1
; Sequence 1, Application US/09382616A
; Patent No. 6200746
; GENERAL INFORMATION:
; APPLICANT: Fisher, Christopher
; APPLICANT: He, Wankia
; TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
; FILE REFERENCE: 28341/6216
; CURRENT APPLICATION NUMBER: US/09/382,616A
; CURRENT FILING DATE: 1999-08-25
; PRIOR APPLICATION NUMBER: 09/382,616
; PRIOR FILING DATE: 1999-08-25
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1
; LENGTH: 98
```

```
; TYPE: PRT
; ORGANISM: Papillomavirus sylvilagi
; US-09-382-616A-1

Query Match          100.0%; Score 42; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.56;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 LLMGTGLGIV 9
      |||||
Db      82 LLMGTGLGIV 90

RESULT 43
US-08-944-368A-4
; Sequence 4, Application US/08944368A
; Patent No. 6228368
; GENERAL INFORMATION:
; APPLICANT: Giesman, et al.
; TITLE OF INVENTION: Papilloma Virus Capsomere Vaccine
; TITLE OF INVENTION: Formulations and Methods of Use
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
; ADDRESSER: Borun
; STREET: 233 South Wacker Drive, 6300 Sears Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/944,368A
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Williams Jr., Joseph A.
; REGISTRATION NUMBER: 38,659
; REFERENCE/DOCKET NUMBER: 27013/34028
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-474-6300
; TELEFAX: 312-474-0448
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-944-368A-4

Query Match          100.0%; Score 42; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.56; 0; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY      1 LLMGTGLGIV 9
      |||||
Db      82 LLMGTGLGIV 90

RESULT 44
US-09-820-764-4
; Sequence 4, Application US/09820764
; Patent No. 6352696
; GENERAL INFORMATION:
; APPLICANT: BURGER, Alexander
; APPLICANT: HALLER, Michael
; TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
; FORMULATIONS AND METHODS OF USE
; NUMBER OF SEQUENCES: 28
```



```

CORRESPONDENCE ADDRESS:
ADDRESSER: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/820,764
FILING DATE: 30-Mar-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/026,896
FILING DATE: 20-FEB-1998
ATTORNEY/AGENT INFORMATION:
NAME: Sandercock, Colin G.
REGISTRATION NUMBER: 31,298
TELECOMMUNICATION INFORMATION:
REFERENCE/DOCKET NUMBER: 37067/102
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 4:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-820-764-4

Query Match      100.0%; Score 42; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.56;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTIGIV 9
DB 82 LLMGTIGIV 90

RESULT 45
US-09-613-303-8
Sequence 8, Application US/09613303
Patent No. 6495347
GENERAL INFORMATION:
APPLICANT: Siegel, Marvin
APPLICANT: Chu, N. Randall
APPLICANT: Mizzen, Lee A.
TITLE OF INVENTION: INDUCTION OF A THI-LIKE RESPONSE IN VITRO
FILE REFERENCE: 12071/00201
CURRENT APPLICATION NUMBER: US/09/613,303
CURRENT FILING DATE: 2000-07-10
PRIOR APPLICATION NUMBER: US 60/143,757
PRIOR FILING DATE: 1999-07-08
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 8
LENGTH: 98
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: fusion sequence
US-09-613-303-8

Query Match      100.0%; Score 42; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.56;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTIGIV 9
```

```

DB 82 LLMGTIGIV 90

RESULT 46
US-09-566-420-19
Sequence 19, Application US/09566420
Patent No. 650641
GENERAL INFORMATION:
APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
IMMUNE RESPONSE
FILE REFERENCE: TBA
CURRENT APPLICATION NUMBER: US/09/566,420
CURRENT FILING DATE: 2000-05-05
PRIOR APPLICATION NUMBER: 60/132,752
PRIOR FILING DATE: 1999-05-06
PRIOR APPLICATION NUMBER: 60/132,750
PRIOR FILING DATE: 1999-05-06
NUMBER OF SEQ ID NOS: 19
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 19
LENGTH: 98
TYPE: PRT
ORGANISM: Human papillomavirus type E7
US-09-566-420-19

Query Match      100.0%; Score 42; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.56;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTIGIV 9
DB 82 LLMGTIGIV 90

RESULT 47
US-09-986-118A-4
Sequence 4, Application US/09986118A
Patent No. 6562351
GENERAL INFORMATION:
APPLICANT: BURGER, Alexander
APPLICANT: HALLER, Michael
TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
FORMULATIONS AND METHODS OF USE
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSER: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/986,118A
FILING DATE: 07-No. 6562351-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/026,896
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Sandercock, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 4:
```

```

;
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-986-118A-4

Query Match          100.0%; Score 42; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.56;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTLGIV 9
    |||||
    82 LLMGTLGIV 90

Db

RESULT 48
US-09-728-466-1
; Sequence 1, Application US/09728466
; Patent No. 6641994
; GENERAL INFORMATION:
; APPLICANT: Fisher, Christopher
; TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
; FILE REFERENCE: 28341/6216
; CURRENT APPLICATION NUMBER: US/09/728,466
; PRIOR FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: 09/382,616
; PRIOR FILING DATE: 1999-08-25
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 1
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Papillomavirus sylvlagl
US-09-728-466-1

Query Match          100.0%; Score 42; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.56;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTLGIV 9
    |||||
    82 LLMGTLGIV 90

Db

RESULT 49
US-09-824-017-4
; Sequence 4, Application US/09824017
; Patent No. 6649167
; GENERAL INFORMATION:
; APPLICANT: BURGER, Alexander
; TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
; FORMULATIONS AND METHODS OF USE
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY & LARDNER
; STREET: 3000 K Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/824,017
; FILING DATE: 03-Apr-2001
; CLASSIFICATION: 424
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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/026,896
; FILING DATE: 1998-02-20
; ATTORNEY/AGENT INFORMATION:
; NAME: Sandercock, Colin G.
; REGISTRATION NUMBER: 31,298
; REFERENCE/DOCKET NUMBER: 37067/102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 672-5300
; TELEFAX: (202) 672-5399
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-824-017-4

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Best Local Similarity 100.0%; Pred. No. 0.56;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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    82 LLMGTLGIV 90

Db

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; Patent No. 6657055
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A THI-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/267,311
; PRIOR FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
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Best Local Similarity 100.0%; Pred. No. 0.56;
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GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 07:10:32 ; Search time 68.2 Seconds
(without alignments)
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Title: US-08-170-344-18

Perfect score: 42

Sequence: 1 LMGTLGIV 9

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

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Maximum Match 100%

Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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5	42	100.0	9	3	US-09-872-836-111
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7	42	100.0	9	4	US-10-133-210-275
8	42	100.0	9	4	US-10-052-578-314
9	42	100.0	9	4	US-10-053-520-314
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17	42	100.0	9	4	US-10-367-668-88
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105	42	100.0	98	5	US-10-657-399-1	Sequence 1, Appl1	178	34	81.0	10	5	US-10-871-138-46	Sequence 46, Appl
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170	38	90.5	13	5	US-10-603-062-19	Sequence 19, Appl	243	33	78.6	388	3	US-09-882-227-102	Sequence 102, App
171	38	90.5	38	3	US-09-759-960-6	Sequence 6, Appl1	244	33	78.6	517	5	US-10-475-203A-14	Sequence 14, Appl
172	38	90.5	38	5	US-10-603-062-6	Sequence 6, Appl1	245	32	76.2	44	4	US-10-425-115-223312	Sequence 223312
173	37	88.1	715	4	US-10-369-493-18297	Sequence 18297, A	246	32	76.2	109	4	US-10-424-599-216563	Sequence 216563

247	32	76.2	109	5	US-10-774-355A-2382	Sequence 2382, Ap	320	31	73.8	464	6	US-11-120-777-6	Sequence 6, Appli
248	32	76.2	119	4	US-10-425-115-310897	Sequence 310897, A	321	31	73.8	473	4	US-10-282-1228-61289	Sequence 61289, A
249	32	76.2	150	4	US-10-437-963-198669	Sequence 198669, A	322	31	73.8	489	4	US-10-408-765A-2035	Sequence 2035, Ap
250	32	76.2	251	4	US-10-425-114-47530	Sequence 47530, A	323	31	73.8	506	4	US-10-156-761-9830	Sequence 9830, Ap
251	32	76.2	318	4	US-10-437-963-111655	Sequence 111655, A	324	31	73.8	513	5	US-10-758-846-55	Sequence 55, Appli
252	32	76.2	340	4	US-10-021-121-4	Sequence 4, Appli	325	31	73.8	513	5	US-10-496-905-34	Sequence 348, App
253	32	76.2	340	4	US-10-138-787-3	Sequence 3, Appli	326	31	73.8	514	4	US-10-425-115-201790	Sequence 201790, A
254	32	76.2	340	4	US-10-417-924A-2	Sequence 2, Appli	327	31	73.8	514	5	US-10-450-763-40540	Sequence 40540, A
255	32	76.2	340	5	US-10-723-860-1256	Sequence 4256, Ap	328	31	73.8	513	4	US-10-425-114-59171	Sequence 59171, A
256	32	76.2	340	5	US-10-698-907-16	Sequence 16, Appli	329	31	73.8	559	4	US-10-474-776-246	Sequence 246, App
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258	32	76.2	457	4	US-10-369-493-22072	Sequence 22072, A	331	31	73.8	556	5	US-10-617-320-4206	Sequence 4206, Ap
259	32	76.2	482	4	US-10-282-122A-60386	Sequence 60386, A	332	31	73.8	575	5	US-10-505-486-70	Sequence 70, Appli
260	32	76.2	567	4	US-10-369-493-2008	Sequence 2008, Ap	333	31	73.8	581	4	US-10-282-122A-71827	Sequence 71827, A
261	32	76.2	597	4	US-10-437-963-179215	Sequence 179215, A	334	31	73.8	636	4	US-10-882-122A-75816	Sequence 75816, A
262	32	76.2	701	3	US-09-738-626-6196	Sequence 6196, Ap	335	31	73.8	636	4	US-10-282-122A-78426	Sequence 78426, A
263	32	76.2	728	5	US-10-450-763-66363	Sequence 46363, A	336	31	73.8	675	4	US-10-282-122A-70237	Sequence 70237, A
264	32	76.2	1210	4	US-10-128-714-3078	Sequence 3078, Ap	337	31	73.8	679	4	US-10-424-599-174833	Sequence 174833, A
265	32	76.2	1224	4	US-10-437-963-164169	Sequence 164169, A	338	31	73.8	742	4	US-10-369-493-18955	Sequence 18955, A
266	32	76.2	1246	4	US-10-128-714-8078	Sequence 8078, Ap	339	31	73.8	1233	4	US-10-424-599-174833	Sequence 174833, A
267	31	73.8	18	3	US-09-742-732-4	Sequence 4, Appli	340	31	73.8	1288	4	US-10-408-765A-2936	Sequence 2936, Ap
268	31	73.8	18	5	US-10-921-613-4	Sequence 4, Appli	341	31	73.8	1915	4	US-10-424-599-159135	Sequence 159135, A
269	31	73.8	30	4	US-10-424-599-148082	Sequence 148082, A	342	30	71.4	66	4	US-10-425-115-262917	Sequence 262917, A
270	31	73.8	66	4	US-10-424-599-266271	Sequence 266271, A	343	30	71.4	66	4	US-10-425-115-267858	Sequence 267858, A
271	31	73.8	68	4	US-10-437-963-167313	Sequence 167313, A	344	30	71.4	66	4	US-10-425-115-267858	Sequence 267858, A
272	31	73.8	72	4	US-10-425-115-257957	Sequence 257957, A	345	30	71.4	66	4	US-10-425-115-267858	Sequence 267858, A
273	31	73.8	101	4	US-10-335-977-6180	Sequence 6180, Ap	346	30	71.4	66	4	US-10-425-115-267858	Sequence 267858, A
274	31	73.8	102	4	US-10-335-977-6179	Sequence 6179, Ap	347	30	71.4	70	4	US-10-106-698-6853	Sequence 6853, Ap
275	31	73.8	110	4	US-10-767-701-86512	Sequence 86512, A	348	30	71.4	87	4	US-10-424-599-246253	Sequence 246253, A
276	31	73.8	112	4	US-10-767-701-8855	Sequence 38557, A	349	30	71.4	92	4	US-10-767-701-38274	Sequence 38274, A
277	31	73.8	138	4	US-10-282-122A-44888	Sequence 44888, A	350	30	71.4	105	4	US-10-425-115-298542	Sequence 298542, A
278	31	73.8	158	4	US-10-425-115-265202	Sequence 265202, A	351	30	71.4	113	4	US-10-425-115-306559	Sequence 306559, A
279	31	73.8	163	4	US-10-424-599-183436	Sequence 183436, A	352	30	71.4	116	4	US-10-425-115-231238	Sequence 231238, A
280	31	73.8	163	4	US-10-424-599-183437	Sequence 183437, A	353	30	71.4	123	4	US-10-437-963-113893	Sequence 113893, A
281	31	73.8	176	4	US-10-437-963-190700	Sequence 190700, A	354	30	71.4	134	4	US-10-424-599-202828	Sequence 202828, A
282	31	73.8	180	4	US-10-312-273-113	Sequence 113, App	355	30	71.4	139	4	US-10-437-963-135694	Sequence 135694, A
283	31	73.8	203	4	US-10-312-273-145	Sequence 145, App	356	30	71.4	139	4	US-10-767-701-34156	Sequence 34156, A
284	31	73.8	203	4	US-10-282-122A-54826	Sequence 54826, A	357	30	71.4	155	4	US-10-767-701-39383	Sequence 39383, A
285	31	73.8	203	5	US-10-756-320-3	Sequence 3, Appli	358	30	71.4	168	4	US-10-424-599-155568	Sequence 155568, A
286	31	73.8	206	4	US-10-289-762-879	Sequence 879, App	359	30	71.4	177	4	US-10-767-701-55568	Sequence 55568, A
287	31	73.8	212	4	US-10-289-762-305	Sequence 305, App	360	30	71.4	177	4	US-10-288-998-19	Sequence 19, Appli
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289	31	73.8	271	5	US-10-774-355A-2365	Sequence 2365, App	362	30	71.4	177	4	US-10-437-963-124469	Sequence 124469, A
290	31	73.8	321	3	US-09-736-131-4	Sequence 4, Appli	363	30	71.4	177	5	US-10-732-923-13342	Sequence 13342, A
291	31	73.8	329	5	US-10-450-763-40847	Sequence 40847, A	364	30	71.4	215	4	US-10-156-761-12681	Sequence 12681, A
292	31	73.8	334	4	US-10-225-567A-613	Sequence 613, App	365	30	71.4	232	5	US-10-739-930-8835	Sequence 8835, A
293	31	73.8	337	3	US-09-742-732-2	Sequence 2, Appli	366	30	71.4	240	4	US-10-647-196-42	Sequence 196-42
294	31	73.8	337	4	US-10-735-991-2	Sequence 2, Appli	367	30	71.4	249	5	US-10-495-148-5	Sequence 148-5
295	31	73.8	337	4	US-10-735-991-4	Sequence 4, Appli	368	30	71.4	252	4	US-10-156-136-26	Sequence 136-26
296	31	73.8	337	4	US-10-735-991-6	Sequence 6, Appli	369	30	71.4	252	6	US-11-041-419-26	Sequence 419-26
297	31	73.8	337	4	US-10-757-262-130	Sequence 130, App	370	30	71.4	272	4	US-10-425-115-339554	Sequence 339554
298	31	73.8	337	5	US-10-921-613-2	Sequence 2, Appli	371	30	71.4	272	5	US-10-998-342-4	Sequence 342-4
299	31	73.8	350	4	US-10-156-761-1017	Sequence 12017, A	372	30	71.4	276	4	US-10-282-122A-48790	Sequence 48790, A
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301	31	73.8	361	4	US-10-425-114-49989	Sequence 49989, A	374	30	71.4	289	4	US-10-282-122A-65861	Sequence 65861, A
302	31	73.8	369	4	US-10-425-114-65138	Sequence 65138, A	375	30	71.4	289	5	US-10-425-114-6	Sequence 114-6
303	31	73.8	378	4	US-10-437-963-118680	Sequence 118680, A	376	30	71.4	309	4	US-10-029-366-33434	Sequence 33434, A
304	31	73.8	388	4	US-10-437-963-192365	Sequence 192365, A	377	30	71.4	310	5	US-10-774-355A-1844	Sequence 1844, Ap
305	31	73.8	388	4	US-10-437-963-192365	Sequence 192365, A	378	30	71.4	316	5	US-10-774-355A-1854	Sequence 1854, Ap
306	31	73.8	413	4	US-10-450-763-40536	Sequence 40536, A	379	30	71.4	316	5	US-10-774-355A-1904	Sequence 1904, Ap
307	31	73.8	417	4	US-10-335-977-6182	Sequence 6182, Ap	380	30	71.4	316	5	US-10-774-355A-2519	Sequence 2519, Ap
308	31	73.8	419	4	US-10-669-161-84	Sequence 84, Appli	381	30	71.4	316	5	US-10-041-615-79	Sequence 79, Appli
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310	31	73.8	422	3	US-10-282-122A-43470	Sequence 43470, Ap	383	30	71.4	333	4	US-10-437-963-167956	Sequence 167956, A
311	31	73.8	431	4	US-10-369-493-19974	Sequence 13974, A	384	30	71.4	334	6	US-11-097-613-38	Sequence 38, Appli
312	31	73.8	434	4	US-10-669-161-86	Sequence 86, Appli	385	30	71.4	343	3	US-10-023-601-9003	Sequence 39003, A
313	31	73.8	464	3	US-09-823-038A-47	Sequence 47, Appli	386	30	71.4	343	3	US-09-925-301-1043	Sequence 1043, Ap
314	31	73.8	464	3	US-09-989-545-6	Sequence 46, Appli	387	30	71.4	346	4	US-10-156-761-9383	Sequence 9383, Ap
315	31	73.8	464	3	US-09-989-545-6	Sequence 46, Appli	388	30	71.4	355	4	US-10-424-599-231529	Sequence 231529, A
316	31	73.8	464	4	US-10-091-333-7	Sequence 7, Appli	389	30	71.4	359	3	US-09-886-055-127	Sequence 127, App
317	31	73.8	464	4	US-10-156-761-10151	Sequence 10151, A	390	30	71.4	359	3	US-09-804-291-127	Sequence 127, App
318	31	73.8	464	4	US-10-325-878-7	Sequence 7, Appli	391	30	71.4	359	4	US-10-017-161-338	Sequence 338, App
319	31	73.8	464	6	US-11-120-777-4	Sequence 4, Appli	392	30	71.4	359	4	US-10-292-798-302	Sequence 302, App

393	30	71.4	359	5	US-10-819-316-127	Sequence 127, App	465	29	69.0	9	5	US-10-871-138-81	Sequence 81, App1
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395	30	71.4	373	4	US-10-724-972A-6664	Sequence 6664, Ap	468	29	69.0	10	3	US-09-891-823-91	Sequence 91, App1
396	30	71.4	375	5	US-10-501-282-3868	Sequence 3868, Ap	469	29	69.0	10	3	US-09-891-823-131	Sequence 131, App1
397	30	71.4	377	5	US-10-501-282-1924	Sequence 1924, Ap	470	29	69.0	10	3	US-09-888-721-8	Sequence 8, App1
398	30	71.4	382	5	US-10-723-860-2197	Sequence 2197, Ap	471	29	69.0	10	4	US-10-365-908-91	Sequence 91, App1
399	30	71.4	383	4	US-10-114-153-46	Sequence 46, App1	472	29	69.0	10	4	US-10-365-908-131	Sequence 131, App
400	30	71.4	392	4	US-10-114-153-48	Sequence 48, App1	473	29	69.0	10	4	US-10-668-400-10	Sequence 10, App1
401	30	71.4	393	4	US-10-156-761-10619	Sequence 10619, A	474	29	69.0	10	5	US-10-871-138-91	Sequence 91, App1
402	30	71.4	403	4	US-10-424-599-202980	Sequence 202980,	475	29	69.0	10	5	US-10-871-138-131	Sequence 131, App
403	30	71.4	405	4	US-10-369-493-13163	Sequence 13163, A	476	29	69.0	11	5	US-10-484-063-18	Sequence 18, App1
404	30	71.4	410	4	US-10-432-934-46	Sequence 46, App1	477	29	69.0	11	5	US-09-759-960-31	Sequence 31, App1
405	30	71.4	420	4	US-10-132-032-94	Sequence 94, App1	478	29	69.0	11	5	US-10-603-062-31	Sequence 31, App1
406	30	71.4	432	4	US-10-156-761-7695	Sequence 7695, Ap	479	29	69.0	18	3	US-09-759-130B-157	Sequence 157, App
407	30	71.4	441	4	US-10-369-493-17287	Sequence 17287, A	480	29	69.0	18	3	US-10-741-790-157	Sequence 157, App
408	30	71.4	442	4	US-10-437-963-168008	Sequence 168008,	481	29	69.0	27	3	US-09-864-761-44631	Sequence 44631, A
409	30	71.4	456	4	US-10-282-122A-59511	Sequence 59511, A	482	29	69.0	45	4	US-10-425-115-228502	Sequence 228502,
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411	30	71.4	460	4	US-10-425-114-43775	Sequence 43775, A	484	29	69.0	57	4	US-10-029-386-30158	Sequence 30158, A
412	30	71.4	479	4	US-10-032-585-7416	Sequence 7416, Ap	485	29	69.0	60	4	US-10-437-963-171561	Sequence 171561,
413	30	71.4	479	4	US-10-389-566-2384	Sequence 2384, Ap	486	29	69.0	70	4	US-10-425-115-327053	Sequence 327053,
414	30	71.4	484	4	US-10-369-493-7596	Sequence 7596, Ap	487	29	69.0	82	4	US-10-424-599-198471	Sequence 198471,
415	30	71.4	486	4	US-10-425-115-325328	Sequence 325328,	488	29	69.0	86	4	US-10-425-115-185457	Sequence 185457,
416	30	71.4	489	4	US-10-156-761-8760	Sequence 8760, Ap	489	29	69.0	87	4	US-10-424-599-221544	Sequence 221544,
417	30	71.4	492	4	US-10-332-447-23	Sequence 23, App1	490	29	69.0	88	4	US-10-424-599-203029	Sequence 203029,
418	30	71.4	500	5	US-10-732-823-13511	Sequence 13511, A	491	29	69.0	91	4	US-10-425-115-326658	Sequence 326658,
419	30	71.4	505	5	US-10-732-923-22124	Sequence 22124, A	492	29	69.0	93	3	US-09-759-130B-155	Sequence 155, App
420	30	71.4	519	4	US-10-437-963-151684	Sequence 151684,	493	29	69.0	93	4	US-10-741-790-155	Sequence 155, App
421	30	71.4	527	4	US-10-425-115-343610	Sequence 343610,	494	29	69.0	96	3	US-09-864-408A-6012	Sequence 6012, Ap
422	30	71.4	531	4	US-10-282-122A-48555	Sequence 48555, A	495	29	69.0	97	4	US-10-424-599-284907	Sequence 284907,
423	30	71.4	547	6	US-11-097-143-34167	Sequence 34167, A	496	29	69.0	98	3	US-09-820-701A-55613	Sequence 55613, A
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425	30	71.4	549	3	US-09-815-442-10680	Sequence 10680, A	498	29	69.0	106	4	US-10-489-762-221	Sequence 221, App
426	30	71.4	559	4	US-10-282-122A-57093	Sequence 57097, A	499	29	69.0	106	4	US-10-425-115-254773	Sequence 254773,
427	30	71.4	575	4	US-10-437-963-1993977	Sequence 199397,	500	29	69.0	108	4	US-10-424-599-217923	Sequence 217923,
428	30	71.4	611	3	US-09-748-107-4	Sequence 4, App1	501	29	69.0	112	4	US-10-360-101-261	Sequence 261, App
429	30	71.4	611	5	US-10-281-346-4	Sequence 4, App1	502	29	69.0	114	4	US-10-410-842A-4	Sequence 4, App1
430	30	71.4	611	5	US-10-732-823-22122	Sequence 22122, A	503	29	69.0	115	3	US-09-759-130B-153	Sequence 153, App
431	30	71.4	611	5	US-10-732-923-22123	Sequence 22123, A	504	29	69.0	115	3	US-10-741-790-153	Sequence 153, App
432	30	71.4	611	6	US-11-097-143-10539	Sequence 10539, A	505	29	69.0	120	4	US-10-424-599-1661176	Sequence 1661176,
433	30	71.4	614	6	US-11-097-143-35565	Sequence 35565, A	506	29	69.0	123	4	US-10-424-599-275017	Sequence 275017,
434	30	71.4	705	6	US-11-097-143-10386	Sequence 10386, A	507	29	69.0	126	3	US-09-867-550-1454	Sequence 1454, Ap
435	30	71.4	723	4	US-10-425-115-288866	Sequence 288866,	508	29	69.0	130	4	US-10-425-115-274846	Sequence 274846,
436	30	71.4	749	4	US-10-437-963-136227	Sequence 136227,	509	29	69.0	133	4	US-10-437-963-177985	Sequence 177985,
437	30	71.4	842	4	US-10-156-761-11064	Sequence 11064, A	510	29	69.0	156	4	US-10-335-977-7727	Sequence 7727, Ap
438	30	71.4	1003	5	US-10-732-923-22128	Sequence 22128, A	511	29	69.0	158	4	US-10-437-963-18931	Sequence 18931,
439	30	71.4	1179	4	US-10-408-765A-2334	Sequence 2334, Ap	512	29	69.0	162	3	US-10-322-281-17	Sequence 17, App1
440	30	71.4	1266	5	US-10-936-626-154	Sequence 154, App	513	29	69.0	162	3	US-09-918-715-303	Sequence 303, App
441	30	71.4	1266	5	US-10-938-061-154	Sequence 154, App	514	29	69.0	162	4	US-10-424-599-152136	Sequence 152136,
442	30	71.4	1283	4	US-10-437-963-143585	Sequence 143585,	515	29	69.0	162	4	US-10-474-794-303	Sequence 303, App
443	30	71.4	1291	5	US-10-756-149-5047	Sequence 5047, Ap	516	29	69.0	162	5	US-10-779-159-303	Sequence 303, App
444	30	71.4	1349	6	US-11-097-143-5091	Sequence 157, App	517	29	69.0	164	4	US-10-335-977-7728	Sequence 7728, Ap
445	30	71.4	1349	6	US-11-097-143-5091	Sequence 5091, Ap	518	29	69.0	169	4	US-10-424-599-285378	Sequence 285378,
446	30	71.4	1823	4	US-10-437-963-143574	Sequence 143574,	519	29	69.0	173	4	US-10-264-237-1974	Sequence 1974, Ap
447	30	71.4	1876	4	US-10-282-122A-73861	Sequence 73861, A	520	29	69.0	183	6	US-11-097-143-27039	Sequence 27039, Ap
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449	30	71.4	3391	5	US-10-871-775-31	Sequence 31, App1	522	29	69.0	192	6	US-11-097-143-2925	Sequence 2925, Ap
450	30	71.4	6751	5	US-10-760-493-25	Sequence 25, App1	523	29	69.0	208	4	US-10-264-049-2796	Sequence 2796, Ap
451	30	71.4	8147	5	US-10-760-493-21	Sequence 21, App1	524	29	69.0	211	3	US-10-156-761-14227	Sequence 14227, A
452	29	69.0	9	3	US-09-759-960-21	Sequence 21, App1	525	29	69.0	216	4	US-09-978-360A-671	Sequence 671, App
453	29	69.0	9	3	US-09-891-823-50	Sequence 50, App1	526	29	69.0	220	4	US-10-433-287-4	Sequence 4, App1
454	29	69.0	9	3	US-09-891-823-81	Sequence 81, App1	527	29	69.0	230	5	US-10-617-320-3066	Sequence 3066, Ap
455	29	69.0	9	4	US-10-128-711-70	Sequence 70, App1	528	29	69.0	234	3	US-09-871-874-20	Sequence 20, App1
456	29	69.0	9	4	US-10-365-908-50	Sequence 50, App1	529	29	69.0	237	4	US-10-365-742-102	Sequence 102, App
457	29	69.0	9	4	US-10-365-908-81	Sequence 81, App1	530	29	69.0	239	4	US-10-282-122A-55381	Sequence 55381, A
458	29	69.0	9	4	US-10-400-991-77	Sequence 77, App1	531	29	69.0	240	5	US-10-474-776-358	Sequence 358, App
459	29	69.0	9	4	US-10-472-661-9	Sequence 9, App1	532	29	69.0	240	5	US-10-472-922-3388	Sequence 3388, Ap
460	29	69.0	9	4	US-10-777-053-327	Sequence 327, App	533	29	69.0	254	3	US-09-919-039-158	Sequence 158, App
461	29	69.0	9	4	US-10-777-053-494	Sequence 494, App	534	29	69.0	254	4	US-10-012-524-333	Sequence 333, App
462	29	69.0	9	4	US-10-837-217-327	Sequence 327, App	535	29	69.0	254	4	US-10-115-122-333	Sequence 333, App
463	29	69.0	9	4	US-10-837-217-494	Sequence 494, App	536	29	69.0	254	4	US-10-800-834-333	Sequence 333, App
464	29	69.0	9	5	US-10-603-062-21	Sequence 21, App1	537	29	69.0	257	4	US-10-425-114-41530	Sequence 41530, A
465	29	69.0	9	5	US-10-871-138-50	Sequence 50, App1	538	29	69.0	257	4		

539	29	69.0	257	4	US-10-425-114-42906	Sequence 42906, A	612	29	69.0	427	4	US-10-291-737-2	Sequence 2, Appl1
540	29	69.0	257	4	US-10-425-115-310215	Sequence 310215, A	613	29	69.0	427	4	US-10-365-564-2	Sequence 2, Appl1
541	29	69.0	258	5	US-10-617-320-4719	Sequence 4719, Ap	614	29	69.0	428	5	US-10-450-763-48608	Sequence 48608, A
542	29	69.0	258	5	US-10-501-282-4226	Sequence 4226, Ap	615	29	69.0	429	3	US-09-815-242-11956	Sequence 11956, A
543	29	69.0	263	4	US-10-472-928-2528	Sequence 2528, Ap	616	29	69.0	429	4	US-10-282-122A-66551	Sequence 66551, A
544	29	69.0	263	4	US-10-424-599-182810	Sequence 182810, A	617	29	69.0	430	3	US-09-057-951-2	Sequence 2, Appl1
545	29	69.0	263	4	US-10-282-122A-56079	Sequence 56079, A	618	29	69.0	430	3	US-09-836-607-2	Sequence 2, Appl1
546	29	69.0	275	4	US-10-156-761-7735	Sequence 7735, Ap	619	29	69.0	430	3	US-09-421-112-2	Sequence 2, Appl1
547	29	69.0	278	4	US-10-282-122A-73146	Sequence 73146, A	620	29	69.0	430	4	US-10-146-574-2	Sequence 2, Appl1
548	29	69.0	281	4	US-10-282-122A-56496	Sequence 56496, A	621	29	69.0	430	4	US-10-157-031-265	Sequence 265, App
549	29	69.0	281	4	US-10-282-122A-59663	Sequence 59663, A	622	29	69.0	430	4	US-10-322-281-522	Sequence 522, App
550	29	69.0	281	4	US-10-282-122A-75139	Sequence 75139, A	623	29	69.0	431	4	US-10-282-122A-61505	Sequence 61505, A
551	29	69.0	284	4	US-10-424-599-440574	Sequence 440574, A	624	29	69.0	431	5	US-10-450-763-60415	Sequence 60415, A
552	29	69.0	292	4	US-10-282-122A-58192	Sequence 58192, A	625	29	69.0	431	5	US-10-450-763-60415	Sequence 60415, A
553	29	69.0	296	3	US-09-873-880-34	Sequence 34, Appl1	626	29	69.0	435	4	US-10-369-493-15842	Sequence 15842, A
554	29	69.0	297	4	US-10-425-115-348596	Sequence 348596, A	627	29	69.0	435	4	US-10-146-574-4	Sequence 4, Appl1
555	29	69.0	299	3	US-09-832-522-78	Sequence 78, Appl1	628	29	69.0	436	4	US-10-369-493-16221	Sequence 16221, A
556	29	69.0	307	3	US-09-800-321A-53	Sequence 53, Appl1	629	29	69.0	437	5	US-10-450-763-44424	Sequence 44424, A
557	29	69.0	307	3	US-09-795-271-80	Sequence 80, Appl1	630	29	69.0	439	4	US-10-369-493-9325	Sequence 9325, Ap
558	29	69.0	307	4	US-10-005-041A-92	Sequence 92, Appl1	631	29	69.0	439	4	US-10-369-493-9377	Sequence 9377, Ap
559	29	69.0	307	4	US-10-041-615-42	Sequence 42, Appl1	632	29	69.0	440	4	US-10-424-599-253715	Sequence 253715, A
560	29	69.0	307	5	US-10-774-355A-1644	Sequence 1644, A	633	29	69.0	441	3	US-09-871-874-21	Sequence 21, Appl1
561	29	69.0	309	5	US-10-425-115-297819	Sequence 297819, A	634	29	69.0	441	3	US-09-895-686-1	Sequence 1, Appl1
562	29	69.0	311	4	US-10-012-542-343	Sequence 343, App	635	29	69.0	443	4	US-10-415-378-10	Sequence 10, Appl1
563	29	69.0	312	4	US-10-115-123-343	Sequence 343, App	636	29	69.0	443	5	US-10-501-282-4230	Sequence 4230, Ap
564	29	69.0	312	4	US-10-800-834-343	Sequence 343, Appl	637	29	69.0	446	3	US-09-882-227-406	Sequence 406, App
565	29	69.0	313	3	US-09-908-006A-56	Sequence 56, Appl1	638	29	69.0	449	4	US-10-335-977-5387	Sequence 5387, Ap
566	29	69.0	313	4	US-10-424-599-178739	Sequence 178739, A	639	29	69.0	451	3	US-09-871-874-9	Sequence 9, Appl1
567	29	69.0	320	4	US-10-081-816-20	Sequence 20, Appl1	640	29	69.0	451	3	US-09-871-874-13	Sequence 13, Appl1
568	29	69.0	320	4	US-09-903-395-2	Sequence 2, Appl1	641	29	69.0	451	4	US-10-369-493-17943	Sequence 17943, A
569	29	69.0	323	3	US-10-288-160-12	Sequence 12, Appl1	642	29	69.0	453	4	US-10-325-567A-621	Sequence 621, App
570	29	69.0	323	5	US-10-603-249-2	Sequence 2, Appl1	643	29	69.0	453	4	US-10-369-493-8947	Sequence 8947, Ap
571	29	69.0	323	5	US-10-108-260A-4241	Sequence 4241, Ap	644	29	69.0	453	4	US-10-369-493-15472	Sequence 15472, A
572	29	69.0	334	4	US-10-108-260A-4241	Sequence 4241, Ap	645	29	69.0	454	4	US-10-369-493-17631	Sequence 17631, A
573	29	69.0	334	4	US-10-335-977-5384	Sequence 5384, Ap	646	29	69.0	457	4	US-10-282-122A-47838	Sequence 47838, A
574	29	69.0	336	5	US-10-732-923-2443	Sequence 2443, Ap	647	29	69.0	460	4	US-10-369-493-17052	Sequence 17052, A
575	29	69.0	340	3	US-09-741-233A-4	Sequence 4, Appl1	648	29	69.0	461	4	US-10-369-493-11223	Sequence 11223, A
576	29	69.0	345	3	US-09-815-242-13259	Sequence 13259, A	649	29	69.0	461	4	US-10-156-761-8893	Sequence 8893, Ap
577	29	69.0	356	3	US-09-769-744A-102	Sequence 102, App	650	29	69.0	463	4	US-10-369-493-10517	Sequence 10517, A
578	29	69.0	356	4	US-10-282-122A-74038	Sequence 74038, A	651	29	69.0	465	4	US-10-369-493-93785	Sequence 93785, A
579	29	69.0	356	5	US-10-472-928-2810	Sequence 2810, Ap	652	29	69.0	468	5	US-10-732-923-33454	Sequence 33454, A
580	29	69.0	357	4	US-10-282-122A-57934	Sequence 57934, A	653	29	69.0	468	5	US-10-732-923-33435	Sequence 33435, A
581	29	69.0	357	4	US-10-322-281-515	Sequence 515, App	654	29	69.0	470	4	US-10-225-810-20	Sequence 20, Appl1
582	29	69.0	360	5	US-10-732-923-10091	Sequence 10091, A	655	29	69.0	470	4	US-10-369-493-17330	Sequence 17330, A
583	29	69.0	362	5	US-10-732-923-10118	Sequence 10118, A	656	29	69.0	470	4	US-10-369-493-33231	Sequence 23321, A
584	29	69.0	370	5	US-10-732-923-10092	Sequence 10092, A	657	29	69.0	470	4	US-10-369-493-33231	Sequence 23321, A
585	29	69.0	371	4	US-10-369-493-22097	Sequence 22097, A	658	29	69.0	471	5	US-10-732-923-33708	Sequence 33708, A
586	29	69.0	374	4	US-10-369-493-17286	Sequence 17286, A	659	29	69.0	472	4	US-10-024-623-29	Sequence 29, Appl1
587	29	69.0	380	5	US-10-658-884-5	Sequence 5, Appl1	660	29	69.0	472	4	US-10-154-419-79	Sequence 79, Appl1
588	29	69.0	386	4	US-10-369-493-17792	Sequence 17792, A	661	29	69.0	472	4	US-10-146-733-74	Sequence 74, Appl1
589	29	69.0	390	4	US-10-282-122A-57588	Sequence 57588, A	662	29	69.0	472	4	US-10-369-493-33536	Sequence 33536, A
590	29	69.0	393	4	US-10-335-977-5385	Sequence 5385, Ap	663	29	69.0	472	5	US-10-732-923-33561	Sequence 33561, A
591	29	69.0	400	4	US-10-097-065-146	Sequence 146, App	664	29	69.0	472	5	US-10-732-923-33631	Sequence 33631, A
592	29	69.0	400	4	US-10-372-876-116	Sequence 116, App	665	29	69.0	472	5	US-10-732-923-33666	Sequence 23666, A
593	29	69.0	401	3	US-09-871-874-11	Sequence 11, Appl	666	29	69.0	472	5	US-10-732-923-33677	Sequence 23677, A
594	29	69.0	403	3	US-09-826-508-30	Sequence 30, Appl1	667	29	69.0	472	5	US-09-871-874-19	Sequence 19, Appl1
595	29	69.0	403	3	US-09-895-686-5	Sequence 5, Appl1	668	29	69.0	475	5	US-10-501-282-4232	Sequence 4232, Ap
596	29	69.0	403	3	US-10-097-340-111	Sequence 121, App	669	29	69.0	476	4	US-10-282-122A-70429	Sequence 70429, A
597	29	69.0	403	4	US-10-225-567A-599	Sequence 599, App	670	29	69.0	476	4	US-10-600-816-7	Sequence 816-7, A
598	29	69.0	403	4	US-10-016-656-2	Sequence 2, Appl1	671	29	69.0	485	3	US-09-871-874-12	Sequence 12, Appl1
599	29	69.0	403	4	US-10-600-816-6	Sequence 6, Appl1	672	29	69.0	486	4	US-10-400-991-42	Sequence 273, App
600	29	69.0	403	5	US-10-756-149-5455	Sequence 5455, Ap	673	29	69.0	486	4	US-10-291-265-973	Sequence 265-973, A
601	29	69.0	403	6	US-11-050-926-121	Sequence 121, App	674	29	69.0	486	4	US-10-501-282-4234	Sequence 4234, A
602	29	69.0	404	4	US-10-282-122A-70261	Sequence 70261, A	675	29	69.0	496	3	US-09-871-874-12	Sequence 12, Appl1
603	29	69.0	404	4	US-10-335-977-5386	Sequence 5386, Ap	676	29	69.0	498	4	US-10-600-816-7	Sequence 816-7, A
604	29	69.0	406	4	US-10-091-007-12	Sequence 12, Appl1	677	29	69.0	503	5	US-10-501-282-4236	Sequence 4236, Ap
605	29	69.0	408	3	US-09-057-951-4	Sequence 4, Appl1	678	29	69.0	506	4	US-10-087-132-927	Sequence 927, App
606	29	69.0	408	4	US-10-105-150-4	Sequence 4, Appl1	679	29	69.0	507	5	US-10-732-923-33673	Sequence 33673, A
607	29	69.0	410	4	US-10-282-122A-48886	Sequence 48886, A	680	29	69.0	513	4	US-10-282-122A-55885	Sequence 55885, A
608	29	69.0	412	5	US-10-501-282-4228	Sequence 4228, Ap	681	29	69.0	515	5	US-10-732-923-33679	Sequence 23679, A
609	29	69.0	424	4	US-10-047-676A-8	Sequence 8, Appl1	682	29	69.0	517	4	US-10-282-122A-63763	Sequence 63763, A
610	29	69.0	424	5	US-10-790-914-8	Sequence 8, Appl1	683	29	69.0	530	4	US-10-047-542-85	Sequence 85, Appl1
611	29	69.0	427	3	US-09-826-508-32	Sequence 32, Appl1	684	29	69.0	533	3	US-09-908-805B-63	Sequence 63, Appl1

685	29	69.0	535	4	US-10-369-493-3824	Sequence 3824, Ap	758	29	69.0	836	5	US-10-855-588-36	Sequence 36, Appl
686	29	69.0	541	4	US-10-369-493-622	Sequence 622, App	759	29	69.0	836	5	US-10-936-626-119	Sequence 119, App
687	29	69.0	551	4	US-10-437-963-146137	Sequence 146137,	760	29	69.0	836	5	US-10-938-061-119	Sequence 119, App
688	29	69.0	550	4	US-10-156-761-13829	Sequence 13829, A	761	29	69.0	836	5	US-10-287-436A-532	Sequence 532, App
689	29	69.0	550	4	US-10-732-923-22791	Sequence 22791, A	762	29	69.0	836	5	US-10-287-436A-1223	Sequence 1223, Ap
690	29	69.0	561	6	US-11-097-143-9282	Sequence 9282, Ap	763	29	69.0	836	5	US-10-631-467-549	Sequence 549, App
691	29	69.0	562	3	US-09-738-626-5317	Sequence 5317, Ap	764	29	69.0	869	5	US-10-825-692-14	Sequence 14, Appl
692	29	69.0	562	4	US-10-781-014-192	Sequence 192, App	765	29	69.0	929	4	US-10-433-794-13	Sequence 13, App
693	29	69.0	574	6	US-11-097-143-37815	Sequence 37815, A	766	29	69.0	933	4	US-10-618-941-101	Sequence 101, App
694	29	69.0	575	4	US-10-087-192-930	Sequence 930, Appl	767	29	69.0	964	4	US-10-437-963-160627	Sequence 160627,
695	29	69.0	575	4	US-10-427-631-14	Sequence 14, App	768	29	69.0	970	3	US-09-795-927-7	Sequence 7, Appl1
696	29	69.0	587	4	US-10-369-493-1555	Sequence 1555, Ap	769	29	69.0	970	4	US-10-345-884-7	Sequence 7, Appl1
697	29	69.0	587	5	US-10-732-923-23759	Sequence 23759, A	770	29	69.0	982	4	US-10-960-789-7	Sequence 117, App
698	29	69.0	626	4	US-10-282-122A-77364	Sequence 77364, A	771	29	69.0	982	4	US-10-341-434-117	Sequence 117, App
699	29	69.0	641	5	US-10-505-486-36	Sequence 36, Appl	772	29	69.0	982	4	US-10-634-574-6	Sequence 6, Appl1
700	29	69.0	665	4	US-10-437-963-144865	Sequence 144865,	773	29	69.0	1001	4	US-10-252-62A-2	Sequence 2, Appl1
701	29	69.0	674	4	US-10-282-122A-65142	Sequence 65142, A	774	29	69.0	1010	4	US-10-369-493-6805	Sequence 6805, Ap
702	29	69.0	674	4	US-10-282-122A-65573	Sequence 65573, A	775	29	69.0	1023	4	US-10-437-963-196965	Sequence 196965,
703	29	69.0	679	5	US-10-505-486-85	Sequence 85, Appl	776	29	69.0	1033	3	US-09-888-615-75	Sequence 75, Appl
704	29	69.0	682	4	US-10-085-198-120	Sequence 120, App	777	29	69.0	1034	5	US-10-480-988-5	Sequence 5, Appl
705	29	69.0	686	4	US-10-176-847-46	Sequence 46, Appl	778	29	69.0	1040	4	US-10-437-963-152835	Sequence 152835,
706	29	69.0	698	5	US-10-732-923-23112	Sequence 23112, A	779	29	69.0	1044	4	US-10-282-122A-69730	Sequence 69730, A
707	29	69.0	699	4	US-10-369-493-18058	Sequence 18058, A	780	29	69.0	1047	4	US-10-437-963-125880	Sequence 125880,
708	29	69.0	699	4	US-10-282-122A-48375	Sequence 48375, A	781	29	69.0	1050	4	US-10-282-122A-67554	Sequence 67554, A
709	29	69.0	721	5	US-10-620-256-6	Sequence 6, Appl1	782	29	69.0	1147	4	US-10-074-978A-116	Sequence 116, App
710	29	69.0	730	4	US-10-855-588-50	Sequence 50, Appl	783	29	69.0	1188	5	US-10-450-763-38500	Sequence 38500, A
711	29	69.0	735	4	US-10-217-371-6	Sequence 6, Appl1	784	29	69.0	1258	4	US-10-450-763-38500	Sequence 59960, A
712	29	69.0	737	5	US-10-437-963-134076	Sequence 134076,	785	29	69.0	1267	5	US-10-282-122A-59960	Sequence 59960, A
713	29	69.0	738	4	US-10-732-923-23276	Sequence 23276, A	786	29	69.0	1375	6	US-10-450-763-55382	Sequence 55382, A
714	29	69.0	749	5	US-10-369-493-18058	Sequence 18058, A	787	29	69.0	1407	4	US-11-097-143-12225	Sequence 12225, A
715	29	69.0	750	4	US-10-855-588-48	Sequence 48, Appl	788	29	69.0	1430	4	US-10-282-122A-78451	Sequence 78451, A
716	29	69.0	750	4	US-10-217-371-14	Sequence 14, Appl	789	29	69.0	1449	5	US-10-732-923-1669	Sequence 1669, Ap
717	29	69.0	751	4	US-10-217-371-44	Sequence 44, Appl1	790	29	69.0	1449	5	US-10-732-923-1670	Sequence 1670, Ap
718	29	69.0	751	5	US-10-855-588-46	Sequence 46, Appl	791	29	69.0	1499	5	US-10-369-493-5843	Sequence 5843, Ap
719	29	69.0	751	5	US-10-936-626-121	Sequence 121, App	792	29	69.0	1558	4	US-10-369-493-5843	Sequence 5843, Ap
720	29	69.0	756	4	US-10-059-585-16	Sequence 16, Appl	793	29	69.0	1815	6	US-11-097-143-31596	Sequence 31596, A
721	29	69.0	758	4	US-10-217-371-10	Sequence 10, Appl	794	29	69.0	1971	5	US-10-450-763-37867	Sequence 37867, A
722	29	69.0	771	4	US-10-217-371-12	Sequence 12, Appl	795	29	69.0	2469	5	US-10-450-763-40815	Sequence 40815, A
723	29	69.0	774	4	US-10-270-333-111	Sequence 111, App	796	29	69.0	3079	4	US-10-369-493-2024	Sequence 2024, Ap
724	29	69.0	774	5	US-10-489-425-2	Sequence 2, Appl1	797	29	69.0	3386	5	US-10-450-763-59460	Sequence 59460, A
725	29	69.0	774	6	US-11-097-143-20703	Sequence 20703, A	798	28	66.7	9	4	US-09-891-823-22	Sequence 22, Appl
726	29	69.0	779	4	US-10-217-371-8	Sequence 8, Appl1	799	28	66.7	9	4	US-10-365-908-22	Sequence 22, Appl
727	29	69.0	779	4	US-10-171-311-180	Sequence 180, App	800	28	66.7	9	5	US-10-871-138-22	Sequence 22, Appl
728	29	69.0	779	4	US-10-301-822-151	Sequence 151, App	801	28	66.7	9	5	US-10-924-377-13	Sequence 13, Appl
729	29	69.0	779	5	US-10-855-588-44	Sequence 44, Appl	802	28	66.7	10	3	US-09-891-823-42	Sequence 42, Appl
730	29	69.0	779	5	US-10-936-626-123	Sequence 123, App	803	28	66.7	10	4	US-10-365-908-42	Sequence 42, Appl
731	29	69.0	779	5	US-10-938-061-123	Sequence 123, App	804	28	66.7	10	5	US-10-871-138-44	Sequence 44, Appl
732	29	69.0	781	5	US-10-855-588-42	Sequence 42, Appl	805	28	66.7	11	3	US-09-891-823-39	Sequence 39, Appl
733	29	69.0	781	5	US-10-936-626-122	Sequence 122, App	806	28	66.7	11	4	US-10-365-908-39	Sequence 39, Appl
734	29	69.0	781	5	US-10-938-061-122	Sequence 122, App	807	28	66.7	11	5	US-10-871-138-39	Sequence 39, Appl
735	29	69.0	790	3	US-09-925-301-1313	Sequence 1313, Ap	808	28	66.7	15	4	US-10-648-547-78	Sequence 78, Appl
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ALIGNMENTS

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; Patent No. US20010006639A1
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.
; APPLICANT: Chlitz, Roman M.
; APPLICANT: Collins, Edward J.
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
; TITLE OF INVENTION: PROTEIN
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/759,960
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/169,425
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 08191/004002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-543-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
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; Publication No. US20020110566A1
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; APPLICANT: Neefe, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/09/891,823
; CURRENT FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
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; TYPE: PRT
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; Publication No. US20020182258A1
; GENERAL INFORMATION:
; APPLICANT: Lunstford, Lynn B.
; APPLICANT: Putnam, David
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: MICROPARTICLES FOR DELIVERY OF NUCLEIC
; TITLE OF INVENTION: ACID
; FILE REFERENCE: 08191/014001
; CURRENT APPLICATION NUMBER: US/09/909,460
; CURRENT FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US/09/321,346
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-05-27
; NUMBER OF SEQ ID NOS: 114
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RESULT 4

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; GENERAL INFORMATION:
; APPLICANT: Barman, Shikha P.
; APPLICANT: McKeever, Una
; TITLE OF INVENTION: DELIVERY SYSTEMS FOR BIOACTIVE AGENTS
; FILE REFERENCE: 08191-018001
; CURRENT APPLICATION NUMBER: US/09/872,836
; CURRENT FILING DATE: 2001-06-01
; PRIOR APPLICATION NUMBER: US 60/208,830
; PRIOR FILING DATE: 2000-06-02
; NUMBER OF SEQ ID NOS: 120
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US-09-872-836-106

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Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 5

US-09-872-836-111
; Sequence 111, Application US/09872836
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; GENERAL INFORMATION:
; APPLICANT: Barman, Shikha P.
; APPLICANT: McKeever, Una
; TITLE OF INVENTION: DELIVERY SYSTEMS FOR BIOACTIVE AGENTS
; FILE REFERENCE: 08191-018001
; CURRENT APPLICATION NUMBER: US/09/872,836
; CURRENT FILING DATE: 2001-06-01
; PRIOR APPLICATION NUMBER: US 60/208,830
; PRIOR FILING DATE: 2000-06-02
; NUMBER OF SEQ ID NOS: 120
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; SEQ ID NO 111
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-872-836-111

Query Match 100.0%; Score 42; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTLGIV 9
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RESULT 6

US-10-128-711-65
; Sequence 65, Application US/10128711
; Publication No. US20030099634A1
; GENERAL INFORMATION:
; APPLICANT: VITIELLO, Maria A.
; APPLICANT: CHESINOT, Robert W.
; APPLICANT: SETTE, Alessandro D.

CELS, Esteaban
GRAY, Howard
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ELICITING
; CTL IMMUNITY

NUMBER OF SEQUENCES: 153
CORRESPONDENCE ADDRESS:
ADDRESS: Townsend and Townsend Kourile and Crew
STREET: Steuart Street Tower, One Market Plaza
CITY: San Francisco
STATE: California
COUNTRY: US
ZIP: 94105-1493

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/128,711
FILING DATE: 22-Apr-2002
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/197,484
FILING DATE: 16-FEB-1994
APPLICATION NUMBER: US 07/935,811
FILING DATE: 26-AUG-1992
APPLICATION NUMBER: US 07/874,491
FILING DATE: 27-APR-1992
APPLICATION NUMBER: US 07/827,682
FILING DATE: 29-JAN-1992
APPLICATION NUMBER: US 07/749,568
FILING DATE: 26-AUG-1991

ATTORNEY/AGENT INFORMATION:
NAME: Parmelee, Steven W.
REGISTRATION NUMBER: 31,990
REFERENCE/DOCKET NUMBER: 14137-26-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 467-9600
TELEFAX: (206) 623-6793

INFORMATION FOR SEQ ID NO: 65:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 65:
US-10-128-711-65

Query Match 100.0%; Score 42; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTLGIV 9
Db 1 LLMGTLGIV 9

RESULT 7

US-10-133-210-275
; Sequence 275, Application US/10133210
; Publication No. US20030103964A1
; GENERAL INFORMATION:
; APPLICANT: Delisi, Charles
; APPLICANT: Berzofsky, Jay
; APPLICANT: Gulukota, Kamalakara
; APPLICANT: Vaccaro, Dennis
; APPLICANT: Wang, Zhiping
; TITLE OF INVENTION: METHODS FOR DESIGNING MOLECULAR CONJUGATES AND
; FILE REFERENCE: BU-035AX
; CURRENT APPLICATION NUMBER: US/10/133,210

```
; CURRENT FILING DATE: 2002-04-26
; NUMBER OF SEQ ID NOS: 281
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 275
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-133-210-275
```

```
Query Match          100.0%; Score 42; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LLMGTLGIV 9
Db 1 LLMGTLGIV 9
```

```
RESULT 8
US-10-052-578-314
; Sequence 314, Application US/10052578
; Publication No. US20030134787A1
; GENERAL INFORMATION:
; APPLICANT: Sloan-Kettering Institute for Cancer Research
; APPLICANT: Rothman, James E.
; APPLICANT: Mayhew, Mark
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Hartl, Ulrich
; APPLICANT: Querfelii, Quathek
; APPLICANT: Moroi, Yoichi
; TITLE OF INVENTION: CONJUGATE HEAT SHOCK PROTEIN-BINDING PEPTIDES
; FILE REFERENCE: 11746/46003
; CURRENT APPLICATION NUMBER: US/10/052,578
; CURRENT FILING DATE: 2002-01-17
; PRIOR APPLICATION NUMBER: 08/961,707
; PRIOR FILING DATE: 1997-10-31
; NUMBER OF SEQ ID NOS: 321
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 314
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: peptide in ml3 coliphage
US-10-052-578-314
```

```
Query Match          100.0%; Score 42; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LLMGTLGIV 9
Db 1 LLMGTLGIV 9
```

```
RESULT 9
US-10-053-520-314
; Sequence 314, Application US/10053520
; Publication No. US20030165530A1
; GENERAL INFORMATION:
; APPLICANT: Sloan-Kettering Institute for Cancer Research
; APPLICANT: Rothman, James E.
; APPLICANT: Mayhew, Mark
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Hartl, Ulrich
; APPLICANT: Querfelii, Quathek
; APPLICANT: Moroi, Yoichi
; TITLE OF INVENTION: CONJUGATE HEAT SHOCK PROTEIN-BINDING PEPTIDES
; FILE REFERENCE: 11746/46004
```

```
; CURRENT APPLICATION NUMBER: US/10/053,520
; CURRENT FILING DATE: 2002-10-01
; PRIOR APPLICATION NUMBER: 08/961,707
; PRIOR FILING DATE: 1997-10-31
; NUMBER OF SEQ ID NOS: 321
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 314
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: peptide in ml3 coliphage
US-10-053-520-314
```

```
Query Match          100.0%; Score 42; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LLMGTLGIV 9
Db 1 LLMGTLGIV 9
```

```
RESULT 10
US-10-365-908-5
; Sequence 5, Application US/10365908
; Publication No. US20030170268A1
; GENERAL INFORMATION:
; APPLICANT: Neeffe, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/10/365,908
; CURRENT FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US/09/891,823
; PRIOR FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-10-365-908-5
```

```
Query Match          100.0%; Score 42; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LLMGTLGIV 9
Db 1 LLMGTLGIV 9
```

```
RESULT 11
US-10-053-498B-314
; Sequence 314, Application US/10053498B
; Publication No. US20030194409A1
; GENERAL INFORMATION:
; APPLICANT: Sloan-Kettering Institute for Cancer Research
; APPLICANT: Rothman, James E.
; APPLICANT: Mayhew, Mark
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Hartl, Ulrich
; APPLICANT: Querfelii, Quathek
; APPLICANT: Moroi, Yoichi
; TITLE OF INVENTION: CONJUGATE HEAT SHOCK PROTEIN-BINDING PEPTIDES
; FILE REFERENCE: 11746/46002
```

```

; CURRENT APPLICATION NUMBER: US/10/053.498B
; CURRENT FILING DATE: 2002-01-17
; PRIOR APPLICATION NUMBER: 08/961,707
; PRIOR FILING DATE: 1997-10-31
; NUMBER OF SEQ ID NOS: 321
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 314
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: peptide in m13 coliphage
US-10-053-498B-314
```

```

Query Match          100.0%; Score 42; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 LLMGTLGIV 9
        |||||
Db       1 LLMGTLGIV 9
```

```

RESULT 12
US-10-367-580-88
; Sequence 88, Application US/10367580
; Publication No. US20040071720A1
; GENERAL INFORMATION:
; APPLICANT: Rothman, James E.
; APPLICANT: Hartl, F. Ulrich
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Takeuchi, Yoshizumi
; APPLICANT: Mayhew, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
; FILE REFERENCE: 11746/461061
; CURRENT APPLICATION NUMBER: US/10/367,580
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: US 09/794,832
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 09/011,645
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: PCT/US96/13363
; PRIOR FILING DATE: 1996-08-16
; PRIOR APPLICATION NUMBER: US 60/002,490
; PRIOR FILING DATE: 1995-08-18
; PRIOR APPLICATION NUMBER: US 60/002,479
; PRIOR FILING DATE: 1995-08-18
; NUMBER OF SEQ ID NOS: 349
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 88
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic peptide
US-10-367-580-88
```

```

Query Match          100.0%; Score 42; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 LLMGTLGIV 9
        |||||
Db       1 LLMGTLGIV 9
```

```

RESULT 13
US-10-367-593-88
; Sequence 88, Application US/10367593
; Publication No. US20040071721A1
; GENERAL INFORMATION:
; APPLICANT: Rothman, James E.
```

```

; APPLICANT: Hartl, F. Ulrich
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Takeuchi, Yoshizumi
; APPLICANT: Mayhew, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
; FILE REFERENCE: 11746/461012
; CURRENT APPLICATION NUMBER: US/10/367,593
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: US 09/011,645
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: PCT/US96/13363
; PRIOR FILING DATE: 1996-08-16
; PRIOR APPLICATION NUMBER: US 60/002,490
; PRIOR FILING DATE: 1995-08-18
; PRIOR APPLICATION NUMBER: US 60/002,479
; PRIOR FILING DATE: 1995-08-18
; NUMBER OF SEQ ID NOS: 349
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 88
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic peptide
US-10-367-593-88
```

```

Query Match          100.0%; Score 42; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 LLMGTLGIV 9
        |||||
Db       1 LLMGTLGIV 9
```

```

RESULT 14
US-10-367-594-88
; Sequence 88, Application US/10367594
; Publication No. US20040071722A1
; GENERAL INFORMATION:
; APPLICANT: Rothman, James E.
; APPLICANT: Hartl, F. Ulrich
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Takeuchi, Yoshizumi
; APPLICANT: Mayhew, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
; FILE REFERENCE: 11746/461041
; CURRENT APPLICATION NUMBER: US/10/367,594
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: US 09/680,806
; PRIOR FILING DATE: 2000-10-05
; PRIOR APPLICATION NUMBER: US 09/011,645
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: PCT/US96/13363
; PRIOR FILING DATE: 1996-08-16
; PRIOR APPLICATION NUMBER: US 60/002,490
; PRIOR FILING DATE: 1995-08-18
; PRIOR APPLICATION NUMBER: US 60/002,479
; PRIOR FILING DATE: 1995-08-18
; NUMBER OF SEQ ID NOS: 349
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 88
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic peptide
US-10-367-594-88
```

```

Query Match          100.0%; Score 42; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
```

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LLMGTLGIV 9
| | | | |
Db 1 LLMGTLGIV 9

RESULT 15

US-10-367-654-88
; Sequence 88, Application US/10367654
; Publication No. US2004007172JA1
; GENERAL INFORMATION:
; APPLICANT: Rothman, James E.
; APPLICANT: Hartl, F. Ulrich
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Takeuchi, Yoshizumi
; APPLICANT: Mayhew, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
; FILE REFERENCE: 11746/461032
; CURRENT APPLICATION NUMBER: US/10/367,654
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: US 10/171,734
; PRIOR FILING DATE: 2002-06-13
; PRIOR APPLICATION NUMBER: US 09/636,295
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: US 09/011,645
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: PCT/US96/13363
; PRIOR FILING DATE: 1996-08-16
; PRIOR APPLICATION NUMBER: US 60/002,490
; PRIOR FILING DATE: 1995-08-18
; PRIOR APPLICATION NUMBER: US 60/002,479
; PRIOR FILING DATE: 1995-08-18
; NUMBER OF SEQ ID NOS: 349
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 88
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic peptide
US-10-367-654-88

Query Match 100.0%; Score 42; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LLMGTLGIV 9
| | | | |
Db 1 LLMGTLGIV 9

RESULT 16

US-10-367-658-88
; Sequence 88, Application US/10367658
; Publication No. US2004007172JA1
; GENERAL INFORMATION:
; APPLICANT: Rothman, James E.
; APPLICANT: Hartl, F. Ulrich
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Takeuchi, Yoshizumi
; APPLICANT: Mayhew, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
; FILE REFERENCE: 11746/461051
; CURRENT APPLICATION NUMBER: US/10/367,658
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: US 09/794,529
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 09/011,645
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: PCT/US96/13363

; PRIOR FILING DATE: 1996-08-16

; PRIOR APPLICATION NUMBER: US 60/002,490

; PRIOR FILING DATE: 1995-08-18

; PRIOR APPLICATION NUMBER: US 60/002,479

; PRIOR FILING DATE: 1995-08-18

; NUMBER OF SEQ ID NOS: 349

; SOFTWARE: WordPerfect 8.0 for Windows

; SEQ ID NO 88

; LENGTH: 9

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: synthetic peptide
US-10-367-658-88

Query Match 100.0%; Score 42; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LLMGTLGIV 9
| | | | |
Db 1 LLMGTLGIV 9

RESULT 17

US-10-367-668-88
; Sequence 88, Application US/10367668
; Publication No. US2004007172JA1
; GENERAL INFORMATION:
; APPLICANT: Rothman, James E.
; APPLICANT: Hartl, F. Ulrich
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Takeuchi, Yoshizumi
; APPLICANT: Mayhew, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
; FILE REFERENCE: 11746/461072
; CURRENT APPLICATION NUMBER: US/10/367,668
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: US 09/794,517
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 09/011,645
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: PCT/US96/13363
; PRIOR FILING DATE: 1996-08-16
; PRIOR APPLICATION NUMBER: US 60/002,490
; PRIOR FILING DATE: 1995-08-18
; PRIOR APPLICATION NUMBER: US 60/002,479
; PRIOR FILING DATE: 1995-08-18
; NUMBER OF SEQ ID NOS: 349
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 88
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic peptide
US-10-367-668-88

Query Match 100.0%; Score 42; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LLMGTLGIV 9
| | | | |
Db 1 LLMGTLGIV 9

RESULT 18

US-10-472-661-4
; Sequence 4, Application US/10472661
; Publication No. US20040106551A1
; GENERAL INFORMATION:

```
APPLICANT: Khleif, Samir N.
APPLICANT: Berzofsky, Jay A.
TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS IMMUNOREACTIVE
TITLE OF INVENTION: PEPTIDES
FILE REFERENCE: 14014.0406U2
CURRENT APPLICATION NUMBER: US/10/472.661
PRIOR FILING DATE: 2003-09-22
PRIOR APPLICATION NUMBER: PCT/US02/09261
PRIOR FILING DATE: 2002-03-22
PRIOR APPLICATION NUMBER: 60/278,520
PRIOR FILING DATE: 2001-03-23
NUMBER OF SEQ ID NOS: 9
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 4
LENGTH: 9
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence; note =
US-10-472-661-4
```

```
Query Match          100.0%; Score 42; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 LLMGTLGIV 9
      1 |||||
      1 LLMGTLGIV 9
```

```
RESULT 19
US-10-367-674-88
Sequence 88, Application US/10367674
Publication No. US20040127684A1
GENERAL INFORMATION:
APPLICANT: Rothman, James E.
APPLICANT: Harcl, F. Ulrich
APPLICANT: Hoe, Mee H.
APPLICANT: Houghton, Alan
APPLICANT: Takechi, Yoshizumi
TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
FILE REFERENCE: 11746/4610211
CURRENT APPLICATION NUMBER: US/10/367,674
CURRENT FILING DATE: 2003-02-14
PRIOR APPLICATION NUMBER: US 10/170,738
PRIOR FILING DATE: 2002-06-13
PRIOR APPLICATION NUMBER: US 09/552,868
PRIOR FILING DATE: 2000-04-20
PRIOR APPLICATION NUMBER: US 09/011,645
PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: PCT/US96/13363
PRIOR FILING DATE: 1996-08-16
PRIOR APPLICATION NUMBER: US 60/002,490
PRIOR FILING DATE: 1995-08-18
PRIOR APPLICATION NUMBER: US 60/002,479
PRIOR FILING DATE: 1995-08-18
NUMBER OF SEQ ID NOS: 349
SOFTWARE: WordPerfect 8.0 for Windows
SEQ ID NO 88
LENGTH: 9
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: synthetic peptide
US-10-367-674-88
```

```
Query Match          100.0%; Score 42; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY      1 LLMGTLGIV 9
```

```
Db      1 |||||
      1 LLMGTLGIV 9
```

```
RESULT 20
US-10-777-053-543
Sequence 543, Application US/10777053
Publication No. US20040132088A1
GENERAL INFORMATION:
APPLICANT: Simard, John J. L.
APPLICANT: Diamond, David C.
APPLICANT: Qiu, Zhiyong
APPLICANT: Lei, Xiang-Dong
TITLE OF INVENTION: EXPRESSION VECTORS ENCODING EPTOPES OF
TARGET-ASSOCIATED ANTIGENS AND METHODS FOR THEIR DESIGN
FILE REFERENCE: MANNK.022C1
CURRENT APPLICATION NUMBER: US/10/777,053
CURRENT FILING DATE: 2004-02-10
PRIOR APPLICATION NUMBER: 10/292,413
PRIOR FILING DATE: 2002-11-07
PRIOR APPLICATION NUMBER: 60/336,968
PRIOR FILING DATE: 2001-11-07
NUMBER OF SEQ ID NOS: 979
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 543
LENGTH: 9
TYPE: PRT
ORGANISM: Human Papillomavirus
US-10-777-053-543
```

```
Query Match          100.0%; Score 42; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 LLMGTLGIV 9
      1 |||||
      1 LLMGTLGIV 9
```

```
RESULT 21
US-10-837-217-543
Sequence 543, Application US/10837217
Publication No. US20040203051A1
GENERAL INFORMATION:
APPLICANT: Simard, John J. L.
APPLICANT: Diamond, David C.
APPLICANT: Qiu, Zhiyong
APPLICANT: Lei, Xiang-Dong
TITLE OF INVENTION: EXPRESSION VECTORS ENCODING EPTOPES OF
TARGET-ASSOCIATED ANTIGENS AND METHODS FOR THEIR DESIGN
FILE REFERENCE: MANNK.022C2
CURRENT APPLICATION NUMBER: US/10/837,217
CURRENT FILING DATE: 2004-04-30
PRIOR APPLICATION NUMBER: 10/292,413
PRIOR FILING DATE: 2002-11-07
PRIOR APPLICATION NUMBER: 60/336,968
PRIOR FILING DATE: 2001-11-07
NUMBER OF SEQ ID NOS: 979
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 543
LENGTH: 9
TYPE: PRT
ORGANISM: Human Papillomavirus
US-10-837-217-543
```

```
Query Match          100.0%; Score 42; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY      1 LLMGTLGIV 9
      1 |||||
      1 LLMGTLGIV 9
```

RESULT 22
US-10-815-514-9
; Sequence 9, Application US/10815514
; Publication No. US20040204361A1
; GENERAL INFORMATION:
; APPLICANT: Rothman, James
; APPLICANT: Mayhew, Mark
; APPLICANT: Hoe, Mee
; TITLE OF INVENTION: KDEL RECEPTOR INHIBITORS
; FILE REFERENCE: 31488
; CURRENT APPLICATION NUMBER: US/10/815,514
; CURRENT FILING DATE: 2004-03-31
; PRIOR APPLICATION NUMBER: US/09/696,872
; PRIOR FILING DATE: 2000-10-26
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 9
; LENGTH: 9
; TYPE: PRT
; ORGANISM: papillomavirus
US-10-815-514-9

Query Match 100.0%; Score 42; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTGLIV 9
| | | | | | | | | |
Db 1 LLMGTGLIV 9

RESULT 23
US-10-603-062-1
; Sequence 1, Application US/10603062
; Publication No. US20040229809A1
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.
; Chicz, Roman M.
; Collins, Edward J.
; Hedley, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
; PROTEIN
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/603,062
; FILING DATE: 24-Jun-2003
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/169,425C
; FILING DATE: 09-OCT-1998
; APPLICATION NUMBER: 60/061,657
; FILING DATE: 09-OCT-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 08191/004002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-543-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:
; LENGTH: 9 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-10-603-062-1

Query Match 100.0%; Score 42; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTGLIV 9
| | | | | | | | | |
Db 1 LLMGTGLIV 9

RESULT 24
US-10-877-930-9
; Sequence 9, Application US/10877930
; Publication No. US20040235129A1
; GENERAL INFORMATION:
; APPLICANT: Rothman, James
; APPLICANT: Mayhew, Mark
; APPLICANT: Hoe, Mee
; TITLE OF INVENTION: KDEL RECEPTOR INHIBITORS
; FILE REFERENCE: 31488
; CURRENT APPLICATION NUMBER: US/10/877,930
; CURRENT FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: US/09/696,070
; PRIOR FILING DATE: 2000-10-25
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 9
; LENGTH: 9
; TYPE: PRT
; ORGANISM: papillomavirus
US-10-877-930-9

Query Match 100.0%; Score 42; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTGLIV 9
| | | | | | | | | |
Db 1 LLMGTGLIV 9

RESULT 25
US-10-871-138-5
; Sequence 5, Application US/10871138
; Publication No. US20040235741A1
; GENERAL INFORMATION:
; APPLICANT: Neefe, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/10/871,138
; CURRENT FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: US/09/891,823
; PRIOR FILING DATE: 2001-06-26
; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-10-871-138-5

Query Match 100.0%; Score 42; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTGIV 9
1 LLMGTGIV 9

RESULT 26

US-10-758-970-106
; Sequence 106, Application US/10758970
; Publication No. US20050037086A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Heu, Yung-Yuen
; APPLICANT: TYO, Michael
; TITLE OF INVENTION: CONTINUOUS-FLOW METHOD FOR PREPARING MICROPARTICLES
; FILE REFERENCE: 08191-01201
; CURRENT APPLICATION NUMBER: US/10/758,970
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: US/09/715,708A
; PRIOR FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: US 60/166,516
; PRIOR FILING DATE: 1999-11-19
; NUMBER OF SEQ ID NOS: 109
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 106
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-10-758-970-106

Query Match 100.0%; Score 42; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTGIV 9
1 LLMGTGIV 9

RESULT 27

US-10-484-063-17
; Sequence 17, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 17
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-17

Query Match 100.0%; Score 42; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTGIV 9

Db 1 LLMGTGIV 9
1 LLMGTGIV 9

RESULT 28

US-10-873-594-9
; Sequence 9, Application US/10873594
; Publication No. US20050095667A1
; GENERAL INFORMATION:
; APPLICANT: Rochman, James
; APPLICANT: Mayhew, Mark
; APPLICANT: Hoe, Mee
; TITLE OF INVENTION: KDEL RECEPTOR INHIBITORS
; FILE REFERENCE: A31488-I-I 065360.01522
; CURRENT APPLICATION NUMBER: US/10/873,594
; CURRENT FILING DATE: 2004-06-21
; PRIOR APPLICATION NUMBER: US/09/800,358
; PRIOR FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: 09/696,070
; PRIOR FILING DATE: 2000-10-25
; PRIOR APPLICATION NUMBER: 09/124,671
; PRIOR FILING DATE: 1998-07-29
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-10-873-594-9

Query Match 100.0%; Score 42; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTGIV 9
1 LLMGTGIV 9

RESULT 29

US-10-751-845-60
; Sequence 60, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 60
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-60

Query Match 100.0%; Score 42; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTGIV 9
1 LLMGTGIV 9

```
RESULT 30
US-10-924-377-16
; Sequence 16, Application US/10924377
; Publication No. US20050181458A1
; GENERAL INFORMATION:
; APPLICANT: Harding, Fiona
; APPLICANT: Mucha, Jeannette Marie
; TITLE OF INVENTION: HPV CD8+ T-Cell Epitopes
; FILE REFERENCE: GC811-2US
; CURRENT APPLICATION NUMBER: US/10/924,377
; CURRENT FILING DATE: 2004-08-23
; PRIOR APPLICATION NUMBER: US 60/500,452
; PRIOR FILING DATE: 2003-09-05
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 9
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-924-377-16

Query Match          100.0%; Score 42; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LLMGTLGIV 9
    |||||
Db 1 LLMGTLGIV 9
```

```
RESULT 31
US-10-776-521B-67
; Sequence 67, Application US/10776521B
; Publication No. US20050202033A1
; GENERAL INFORMATION:
; APPLICANT: Fletcher, Jeesica
; APPLICANT: Prince-Cohane, Kenya
; APPLICANT: Mehta, Sunil
; APPLICANT: Slusarewicz, Paul
; APPLICANT: Andjelic, Sofija
; APPLICANT: Barber, Brian
; TITLE OF INVENTION: IMPROVED HEAT SHOCK PROTEIN-BASED VACCINES AND
; FILE REFERENCE: 8449-405-999
; CURRENT APPLICATION NUMBER: US/10/776,521B
; CURRENT FILING DATE: 2004-02-12
; PRIOR APPLICATION NUMBER: 60/503,417
; PRIOR FILING DATE: 2003-09-16
; PRIOR APPLICATION NUMBER: 60/463,746
; PRIOR FILING DATE: 2003-04-18
; PRIOR APPLICATION NUMBER: 60/462,469
; PRIOR FILING DATE: 2003-04-11
; PRIOR APPLICATION NUMBER: 60/447,142
; PRIOR FILING DATE: 2003-02-13
; NUMBER OF SEQ ID NOS: 419
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 67
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma Virus
US-10-776-521B-67
```

```
QY 1 LLMGTLGIV 9
    |||||
Db 1 LLMGTLGIV 9
```

RESULT 32

```
US-10-820-067A-67
; Sequence 67, Application US/10820067A
; Publication No. US20050214312A1
; GENERAL INFORMATION:
; APPLICANT: Fletcher, J.
; APPLICANT: Prince-Cohane, K.
; APPLICANT: Mehta, S.
; APPLICANT: Slusarewicz, P.
; APPLICANT: Andjelic, S.
; TITLE OF INVENTION: IMPROVED HEAT SHOCK PROTEIN-BASED
; FILE REFERENCE: 8449-405-999
; CURRENT APPLICATION NUMBER: US/10/820,067A
; CURRENT FILING DATE: 2004-04-08
; PRIOR APPLICATION NUMBER: 60/462,469
; PRIOR FILING DATE: 2003-04-11
; PRIOR APPLICATION NUMBER: 60/463,746
; PRIOR FILING DATE: 2003-04-18
; PRIOR APPLICATION NUMBER: 60/503,417
; PRIOR FILING DATE: 2003-09-16
; NUMBER OF SEQ ID NOS: 926
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 67
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma Virus
US-10-820-067A-67

Query Match          100.0%; Score 42; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LLMGTLGIV 9
    |||||
Db 1 LLMGTLGIV 9
```

```
RESULT 33
US-09-891-823-47
; Sequence 47, Application US/09891823
; Publication No. US20020110566A1
; GENERAL INFORMATION:
; APPLICANT: Neefe, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Wimmert, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/09/891,823
; CURRENT FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 47
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-09-891-823-47
```

```
Query Match          100.0%; Score 42; DB 3; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LLMGTLGIV 9
    |||||
Db 2 LLMGTLGIV 10
```

RESULT 34
US-10-062-710-229

```
; Sequence 229, Application US/10062710
; Publication No. US20030049253A1
; GENERAL INFORMATION:
; APPLICANT: Li, Frank O.
; APPLICANT: Chu, Yong-Liang
; APPLICANT: Qiu, Jian-Tai
; TITLE OF INVENTION: Polymeric Conjugates for Delivery of
; TITLE OF INVENTION: MHC-Recognized Epitopes
; TITLE OF INVENTION: Via Peptide Vaccines
; FILE REFERENCE: 3781-001-27
; CURRENT APPLICATION NUMBER: US/10/062,710
; CURRENT FILING DATE: 2002-02-05
; PRIOR APPLICATION NUMBER: US 60/310,498
; PRIOR FILING DATE: 2001-08-08
; NUMBER OF SEQ ID NOS: 232
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 229
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Epstein-Barr Virus
US-10-062-710-229
```

```
Query Match      100.0%; Score 42; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LLMGTLGIV 9
    |||||
Db 2 LLMGTLGIV 10
```

```
RESULT 35
US-10-365-908-47
; Sequence 47, Application US/10365908
; Publication No. US20030170268A1
; GENERAL INFORMATION:
; APPLICANT: Neele, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/10/365,908
; CURRENT FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US/09/891,823
; PRIOR FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 47
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-10-365-908-47
```

```
Query Match      100.0%; Score 42; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LLMGTLGIV 9
    |||||
Db 2 LLMGTLGIV 10
```

```
RESULT 36
US-10-871-138-47
; Sequence 47, Application US/10871138
; Publication No. US20040235741A1
; GENERAL INFORMATION:
; APPLICANT: Neele, John R.
; APPLICANT: Boux, Leslie J.
```

```
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/10/871,138
; CURRENT FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: US/09/891,823
; PRIOR FILING DATE: 2001-06-26
; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 47
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-10-871-138-47
```

```
Query Match      100.0%; Score 42; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LLMGTLGIV 9
    |||||
Db 2 LLMGTLGIV 10
```

```
RESULT 37
US-10-751-845-107
; Sequence 107, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 107
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-107
```

```
Query Match      100.0%; Score 42; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LLMGTLGIV 9
    |||||
Db 1 LLMGTLGIV 9
```

```
RESULT 38
US-10-472-661-7
; Sequence 7, Application US/10472661
; Publication No. US20040106551A1
; GENERAL INFORMATION:
; APPLICANT: Khleif, Samir N.
; APPLICANT: Berzofsky, Jay A.
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS IMMUNOREACTIVE
; TITLE OF INVENTION: PEPTIDES
; FILE REFERENCE: 14014,040602
```

```
/ CURRENT APPLICATION NUMBER: US/10/472,661
/ CURRENT FILING DATE: 2003-09-22
/ PRIOR APPLICATION NUMBER: PCT/US02/09261
/ PRIOR FILING DATE: 2002-03-22
/ PRIOR APPLICATION NUMBER: 60/278,520
/ PRIOR FILING DATE: 2001-03-23
/ NUMBER OF SEQ ID NOS: 9
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 7
/ LENGTH: 11
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence; note =
/ OTHER INFORMATION: synthetic construct
US-10-472-661-7
```

```
Query Match          100.0%; Score 42; DB 4; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.26;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LLMGTGIV 9
    |||||
Db 1 LLMGTGIV 9
```

```
RESULT 39
US-09-909-460-108
/ Sequence 108, Application US/09909460
/ Publication No. US20020182258A1
/ GENERAL INFORMATION:
/ APPLICANT: Lunsford, Lynn B.
/ APPLICANT: Putnam, David
/ APPLICANT: Hedley, Mary Lynne
/ TITLE OF INVENTION: MICROPARTICLES FOR DELIVERY OF NUCLEIC
/ TITLE OF INVENTION: ACID
/ FILE REFERENCE: 08191/014001
/ CURRENT APPLICATION NUMBER: US/09/909,460
/ CURRENT FILING DATE: 2001-07-18
/ PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US/09/321,346
/ PRIOR FILING DATE: EARLIER FILING DATE: 1999-05-27
/ NUMBER OF SEQ ID NOS: 114
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 108
/ LENGTH: 12
/ TYPE: PRT
/ ORGANISM: Human papilloma virus
US-09-909-460-108
```

```
Query Match          100.0%; Score 42; DB 3; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.26;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LLMGTGIV 9
    |||||
Db 1 LLMGTGIV 9
```

```
RESULT 40
US-09-872-836-108
/ Sequence 108, Application US/09872836
/ Publication No. US20040142475A1
/ GENERAL INFORMATION:
/ APPLICANT: Barman, Shikha P.
/ APPLICANT: McKeever, Una
/ APPLICANT: Hedley, Mary Lynne
/ TITLE OF INVENTION: DELIVERY SYSTEMS FOR BIOACTIVE AGENTS
/ FILE REFERENCE: 08191-018001
/ CURRENT APPLICATION NUMBER: US/09/872,836
/ CURRENT FILING DATE: 2001-06-01
/ PRIOR APPLICATION NUMBER: US 60/208,830
/ PRIOR FILING DATE: 2000-06-02
/ NUMBER OF SEQ ID NOS: 120
```

```
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 108
/ LENGTH: 12
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-09-872-836-108
```

```
Query Match          100.0%; Score 42; DB 3; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.26;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LLMGTGIV 9
    |||||
Db 1 LLMGTGIV 9
```

```
RESULT 41
US-10-758-970-108
/ Sequence 108, Application US/10758970
/ Publication No. US20050037086A1
/ GENERAL INFORMATION:
/ APPLICANT: Hedley, Mary Lynne
/ APPLICANT: Heu, Yung-Yueh
/ APPLICANT: Tyo, Michael
/ TITLE OF INVENTION: CONTINUOUS-FLOW METHOD FOR PREPARING MICROPARTICLES
/ FILE REFERENCE: 08191-012001
/ CURRENT APPLICATION NUMBER: US/10/758,970
/ CURRENT FILING DATE: 2004-01-16
/ PRIOR APPLICATION NUMBER: US/09/715,708A
/ PRIOR FILING DATE: 2000-11-17
/ PRIOR APPLICATION NUMBER: US 60/166,516
/ PRIOR FILING DATE: 1999-11-19
/ NUMBER OF SEQ ID NOS: 109
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 108
/ LENGTH: 12
/ TYPE: PRT
/ ORGANISM: Human papilloma virus
US-10-758-970-108
```

```
Query Match          100.0%; Score 42; DB 5; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.26;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LLMGTGIV 9
    |||||
Db 1 LLMGTGIV 9
```

```
RESULT 42
US-10-751-845-62
/ Sequence 62, Application US/10751845
/ Publication No. US20050100928A1
/ GENERAL INFORMATION:
/ APPLICANT: Hedley, Mary Lynne
/ APPLICANT: Urban, Robert G.
/ APPLICANT: Chicz, Roman M.
/ TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
/ FILE REFERENCE: 08191-013001
/ CURRENT APPLICATION NUMBER: US/10/751,845
/ CURRENT FILING DATE: 2004-01-05
/ PRIOR APPLICATION NUMBER: US/09/664,225
/ PRIOR FILING DATE: 2000-08-18
/ PRIOR APPLICATION NUMBER: US 60/169,846
/ PRIOR FILING DATE: 1999-12-09
/ PRIOR APPLICATION NUMBER: US 60/154,665
/ PRIOR FILING DATE: 1999-09-16
/ NUMBER OF SEQ ID NOS: 163
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 62
/ LENGTH: 12
/ TYPE: PRT
/ ORGANISM: Human Papilloma virus
```

US-10-751-845-62

Query Match 100.0%; Score 42; DB 5; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.26;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTLGIV 9
| | | | |
| | | | |
DB 1 LLMGTLGIV 9

RESULT 43

US-09-759-960-3
; Sequence 3, Application US/09759960
; Patent No. US2001000639A1
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; APPLICANT: Collins, Edward J.
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
; TITLE OF INVENTION: PROTEIN
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/759,960
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/169,425
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 08191/004002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-543-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 13 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-759-960-3

Query Match 100.0%; Score 42; DB 3; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.28;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTLGIV 9
| | | | |
| | | | |
DB 1 LLMGTLGIV 9

RESULT 44

US-09-909-460-110
; Sequence 110, Application US/09909460
; Publication No. US20020182258A1
; GENERAL INFORMATION:
; APPLICANT: Lunford, Lynn B.
; APPLICANT: Putnam, David

; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: MICROPARTICLES FOR DELIVERY OF NUCLEIC
; FILE REFERENCE: 08191/014001
; CURRENT APPLICATION NUMBER: US/09/909,460
; CURRENT FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US/09/321,346
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-05-27
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 13
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-09-909-460-110

Query Match 100.0%; Score 42; DB 3; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.28;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTLGIV 9
| | | | |
| | | | |
DB 1 LLMGTLGIV 9

RESULT 45
US-09-872-836-110
; Sequence 110, Application US/09872836
; Publication No. US20040142475A1
; GENERAL INFORMATION:
; APPLICANT: Barman, Shikha P.
; APPLICANT: McKeever, Una
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: DELIVERY SYSTEMS FOR BIOACTIVE AGENTS
; FILE REFERENCE: 08191-018001
; CURRENT APPLICATION NUMBER: US/09/872,836
; CURRENT FILING DATE: 2001-06-01
; PRIOR APPLICATION NUMBER: US 60/208,830
; PRIOR FILING DATE: 2000-06-02
; NUMBER OF SEQ ID NOS: 120
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 110
; LENGTH: 13
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-872-836-110

Query Match 100.0%; Score 42; DB 3; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.28;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTLGIV 9
| | | | |
| | | | |
DB 1 LLMGTLGIV 9

RESULT 46
US-10-603-062-3
; Sequence 3, Application US/10603062
; Publication No. US20040229609A1
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; APPLICANT: Collins, Edward J.
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA

```

;
; COUNTRY: US
; ZIP: 02110-2604
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/603,062
; FILING DATE: 24-Jun-2003
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/169,425C
; FILING DATE: 09-OCT-1998
; APPLICATION NUMBER: 60/061,657
; FILING DATE: 09-OCT-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 08191/004002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-543-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 13 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-10-603-062-3
```

```
Query Match          100.0%; Score 42; DB 5; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.28;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LLMGTLGIV 9
   |||||
Db 1 LLMGTLGIV 9
```

```

RESULT 47
US-10-648-547-75
; Sequence 75; Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 75
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-75
```

```
Query Match          100.0%; Score 42; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LLMGTLGIV 9
   |||||
Db 5 LLMGTLGIV 13
```

```

RESULT 48
US-10-648-547-79
; Sequence 79; Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 79
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-79
```

```
Query Match          100.0%; Score 42; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LLMGTLGIV 9
   |||||
Db 7 LLMGTLGIV 15
```

```

RESULT 49
US-10-648-547-84
; Sequence 84; Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 84
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-84
```

```
Query Match          100.0%; Score 42; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LLMGTLGIV 9
   |||||
Db 3 LLMGTLGIV 11
```

```

RESULT 50
US-10-648-547-95
; Sequence 95; Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
```

```
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 95
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-95
```

```
Query Match 100.0%; Score 42; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LLMGTLGIV 9
|||
|||
|||
Db 6 LLMGTLGIV 14
```

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Search completed: May 5, 2006, 07:43:11
Job time : 81.2 secs
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GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: May 5, 2006, 07:32:07 ; Search time 18.4 Seconds

(without alignments)
22.639 Million cell updates/sec

Title: US-08-170-344-18

Perfect score: 42

Sequence: 1 LLMGTLCIV 9

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database :

1: /SIDS5/ptodata/1/pubppa/US08_NEW_PUB.pep1.*
2: /SIDS5/ptodata/1/pubppa/US06_NEW_PUB.pep.*
3: /SIDS5/ptodata/1/pubppa/US07_NEW_PUB.pep.*
4: /SIDS5/ptodata/1/pubppa/US08_NEW_PUB.pep.*
5: /SIDS5/ptodata/1/pubppa/PCT_NEW_PUB.pep.*
6: /SIDS5/ptodata/1/pubppa/US09_NEW_PUB.pep.*
7: /SIDS5/ptodata/1/pubppa/US09_NEW_PUB.pep1.*
8: /SIDS5/ptodata/1/pubppa/US10_NEW_PUB.pep.*
9: /SIDS5/ptodata/1/pubppa/US10_NEW_PUB.pep1.*
10: /SIDS5/ptodata/1/pubppa/US11_NEW_PUB.pep.*
11: /SIDS5/ptodata/1/pubppa/US11_NEW_PUB.pep1.*
12: /SIDS5/ptodata/1/pubppa/US60_NEW_PUB.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	42	100.0	15	9	US-10-530-061-1713
2	42	100.0	15	9	US-10-530-061-1714
3	42	100.0	15	9	US-10-530-061-1715
4	42	100.0	98	8	US-10-511-814-8
5	42	100.0	98	8	US-10-511-814-11
6	42	100.0	98	9	US-10-530-253-14
7	42	100.0	98	11	US-11-179-478-4
8	42	100.0	248	9	US-10-530-253-1
9	42	100.0	248	9	US-10-530-253-3
10	42	100.0	248	9	US-10-530-253-5
11	42	100.0	248	9	US-10-530-253-7
12	42	100.0	248	9	US-10-530-253-9
13	42	100.0	248	9	US-10-530-253-11
14	42	100.0	256	11	US-11-192-923A-2
15	38	99.5	99	9	US-10-530-253-30
16	34	81.0	15	9	US-10-530-061-1722
17	34	81.0	15	9	US-10-530-061-1723
18	34	81.0	98	9	US-10-530-253-28
19	33	78.6	15	9	US-10-530-061-1725
20	33	78.6	15	9	US-10-530-061-1726
21	33	78.6	15	9	US-10-530-061-1727

22	33	78.6	97	9	US-10-530-253-29	Sequence 29, Appl
23	33	78.6	179	11	US-11-105-399-10	Sequence 10, Appl
24	32	76.2	169	11	US-11-087-099-7291	Sequence 7391, Ap
25	32	76.2	313	11	US-11-188-298-9309	Sequence 9309, Ap
26	32	76.2	340	11	US-11-203-251A-101	Sequence 101, Appl
27	32	76.2	417	11	US-11-188-298-7288	Sequence 7288, Ap
28	32	76.2	473	11	US-11-188-298-1021	Sequence 1021, Ap
29	32	76.2	473	11	US-11-188-298-4129	Sequence 4129, Ap
30	32	76.2	473	11	US-11-045-004-854	Sequence 854, Appl
31	32	76.2	473	11	US-11-188-298-11785	Sequence 11785, A
32	32	76.2	637	11	US-11-188-298-10117	Sequence 10117, A
33	32	76.2	638	11	US-11-188-298-13016	Sequence 13016, A
34	31	73.8	253	11	US-11-045-004-2568	Sequence 2568, Ap
35	31	73.8	327	11	US-11-188-298-12413	Sequence 12413, A
36	31	73.8	353	11	US-11-045-004-437	Sequence 437, Appl
37	31	73.8	413	11	US-11-072-512-2339	Sequence 2339, Ap
38	31	73.8	422	11	US-11-188-298-5239	Sequence 5239, Ap
39	31	73.8	625	11	US-11-188-298-6306	Sequence 6306, Ap
40	30	71.4	15	9	US-10-530-061-1721	Sequence 1721, Ap
41	30	71.4	104	9	US-10-530-253-40	Sequence 40, Appl
42	30	71.4	205	11	US-11-079-463-6262	Sequence 6262, Ap
43	30	71.4	242	9	US-10-506-454-1358	Sequence 1358, Ap
44	30	71.4	370	11	US-11-188-298-11179	Sequence 11179, A
45	30	71.4	371	11	US-11-087-099-5578	Sequence 5578, Ap
46	30	71.4	371	11	US-11-188-298-16133	Sequence 16133, A
47	30	71.4	437	11	US-11-079-463-8893	Sequence 8893, Ap
48	30	71.4	540	11	US-11-079-463-6055	Sequence 6055, Ap
49	30	71.4	554	11	US-11-188-298-17174	Sequence 17174, A
50	30	71.4	651	11	US-11-188-298-15243	Sequence 15243, A
51	30	71.4	651	11	US-11-188-298-20801	Sequence 20801, A
52	30	71.4	1304	9	US-10-821-234-1648	Sequence 1648, Ap
53	30	71.4	1304	11	US-11-232-440-6	Sequence 6, Appl
54	30	71.4	1319	11	US-11-232-440-7	Sequence 7, Appl
55	30	71.4	3389	9	US-10-204-252-10	Sequence 10, Appl
56	30	71.4	3391	9	US-10-204-252-6	Sequence 6, Appl
57	30	71.4	3391	9	US-10-204-252-8	Sequence 8, Appl
58	30	71.4	3391	9	US-10-204-252-12	Sequence 12, Appl
59	30	71.4	3391	9	US-10-204-252-14	Sequence 14, Appl
60	30	71.4	3391	9	US-10-204-252-16	Sequence 16, Appl
61	30	71.4	3391	9	US-10-204-252-18	Sequence 18, Appl
62	30	71.4	3402	9	US-10-204-252-18	Sequence 18, Appl
63	29	69.0	15	9	US-10-530-061-1747	Sequence 1747, Ap
64	29	69.0	15	9	US-10-530-061-1748	Sequence 1748, Ap
65	29	69.0	98	9	US-10-530-253-36	Sequence 36, Appl
66	29	69.0	147	11	US-11-096-5688-2259	Sequence 2259, Ap
67	29	69.0	169	11	US-11-096-5688-11654	Sequence 11654, A
68	29	69.0	175	11	US-11-096-5688-17560	Sequence 17560, A
69	29	69.0	175	11	US-11-045-004-2428	Sequence 2428, Ap
70	29	69.0	193	11	US-11-087-099-7049	Sequence 7049, Ap
71	29	69.0	193	11	US-11-188-298-6451	Sequence 6451, Ap
72	29	69.0	201	11	US-11-096-5688-2258	Sequence 2258, Ap
73	29	69.0	216	7	US-09-978-360A-671	Sequence 671, Appl
74	29	69.0	221	9	US-10-714-887-188	Sequence 188, Appl
75	29	69.0	233	8	US-10-511-937-2414	Sequence 2414, Ap
76	29	69.0	257	11	US-11-096-5688-2257	Sequence 2257, Ap
77	29	69.0	262	11	US-11-079-463-6379	Sequence 6379, Ap
78	29	69.0	297	11	US-11-096-5688-17559	Sequence 17559, A
79	29	69.0	307	11	US-11-079-463-1300	Sequence 6300, Ap
80	29	69.0	327	9	US-10-467-9628B-107	Sequence 107, Appl
81	29	69.0	336	11	US-11-087-099-9682	Sequence 9682, Ap
82	29	69.0	336	11	US-11-188-298-8971	Sequence 8971, Ap
83	29	69.0	336	11	US-11-188-298-13292	Sequence 13292, A
84	29	69.0	341	11	US-11-188-298-18747	Sequence 18747, A
85	29	69.0	342	11	US-11-087-099-1996	Sequence 1996, Ap
86	29	69.0	345	11	US-11-188-298-1976	Sequence 1976, Ap
87	29	69.0	345	11	US-11-188-298-7045	Sequence 7045, Ap
88	29	69.0	355	11	US-11-188-298-5736	Sequence 5736, Ap
89	29	69.0	371	11	US-11-188-298-13580	Sequence 13580, A
90	29	69.0	373	11	US-10-505-928B-203	Sequence 203, Appl
91	29	69.0	403	8	US-11-169-041-185	Sequence 185, Appl
92	29	69.0	423	11	US-11-079-463-9217	Sequence 9217, Ap
93	29	69.0	429	11	US-11-047-183-12	Sequence 12, Appl
94	29	69.0	430	11	US-11-042-814-2	Sequence 2, Appl

95	29	69.0	431	11	US-11-045-004-2639	Sequence 2639, App	168	28	66.7	304	9	US-10-793-626-1652	Sequence 1652, App
96	29	69.0	436	11	US-11-042-814-4	Sequence 4, Appl1	169	28	66.7	320	11	US-11-072-512-2641	Sequence 2641, App
97	29	69.0	458	11	US-11-079-463-8027	Sequence 8027, App	170	28	66.7	330	11	US-11-188-238-2011	Sequence 2011, App
98	29	69.0	463	11	US-11-188-298-6123	Sequence 6123, App	171	28	66.7	331	11	US-11-188-238-14045	Sequence 14045, App
99	29	69.0	464	11	US-11-188-298-17702	Sequence 17702, A	172	28	66.7	335	9	US-10-506-454-1214	Sequence 1214, App
100	29	69.0	468	11	US-11-188-298-5900	Sequence 5900, App	173	28	66.7	335	11	US-11-188-298-13682	Sequence 13682, A
101	29	69.0	468	11	US-11-188-298-8539	Sequence 8539, App	174	28	66.7	344	11	US-11-087-039-8295	Sequence 8295, App
102	29	69.0	472	11	US-11-188-298-1804	Sequence 1804, App	175	28	66.7	344	11	US-11-096-568A-12954	Sequence 12954, App
103	29	69.0	472	11	US-11-188-298-7009	Sequence 7009, App	176	28	66.7	344	11	US-11-188-238-18658	Sequence 18658, A
104	29	69.0	472	11	US-11-188-298-7690	Sequence 7690, App	177	28	66.7	351	11	US-11-096-568A-12953	Sequence 12953, A
105	29	69.0	472	11	US-11-188-298-9346	Sequence 9346, App	178	28	66.7	353	11	US-11-079-463-5707	Sequence 5707, App
106	29	69.0	472	11	US-11-188-298-15363	Sequence 15363, A	179	28	66.7	356	11	US-11-188-238-15048	Sequence 15048, A
107	29	69.0	476	11	US-11-087-039-3539	Sequence 3539, App	180	28	66.7	357	11	US-11-188-238-15031	Sequence 15031, A
108	29	69.0	476	11	US-11-087-039-8740	Sequence 8740, App	181	28	66.7	357	11	US-11-045-004-1742	Sequence 1742, App
109	29	69.0	486	11	US-11-000-463-273	Sequence 273, App	182	28	66.7	360	9	US-10-995-561-547	Sequence 547, App
110	29	69.0	507	11	US-11-188-298-1536	Sequence 1536, App	183	28	66.7	373	11	US-11-045-004-56	Sequence 56, Appl1
111	29	69.0	515	11	US-11-079-463-9903	Sequence 9903, App	184	28	66.7	381	9	US-10-641-678-74	Sequence 74, Appl1
112	29	69.0	515	11	US-11-188-298-21436	Sequence 21436, A	185	28	66.7	387	11	US-11-092-140-17	Sequence 17, Appl1
113	29	69.0	530	9	US-10-453-909-85	Sequence 85, Appl1	186	28	66.7	404	11	US-11-096-568A-6857	Sequence 6857, App
114	29	69.0	533	11	US-11-214-199-63	Sequence 63, Appl1	187	28	66.7	418	11	US-11-096-568A-28156	Sequence 28126, App
115	29	69.0	546	11	US-11-096-568A-27860	Sequence 27860, A	188	28	66.7	422	11	US-11-188-238-7576	Sequence 7576, App
116	29	69.0	550	11	US-11-096-568A-27859	Sequence 27859, A	189	28	66.7	432	11	US-11-087-039-10883	Sequence 10883, A
117	29	69.0	554	11	US-11-096-568A-27858	Sequence 27858, A	190	28	66.7	441	11	US-11-188-238-6457	Sequence 6457, App
118	29	69.0	568	11	US-11-188-298-10968	Sequence 10968, A	191	28	66.7	451	11	US-11-096-568A-6856	Sequence 6856, App
119	29	69.0	585	11	US-11-098-686-11088	Sequence 11088, A	192	28	66.7	451	11	US-11-045-004-2398	Sequence 2398, App
120	29	69.0	617	11	US-11-188-298-118015	Sequence 18015, A	193	28	66.7	452	11	US-11-188-238-5405	Sequence 5405, App
121	29	69.0	617	11	US-10-467-657-6812	Sequence 6812, App	194	28	66.7	453	11	US-11-096-568A-6855	Sequence 6855, App
122	29	69.0	680	9	US-10-915-002-190	Sequence 190, App	195	28	66.7	455	9	US-10-467-657-5828	Sequence 5828, App
123	29	69.0	696	11	US-11-080-991-46	Sequence 46, Appl1	196	28	66.7	456	11	US-11-096-568A-28125	Sequence 28125, A
124	29	69.0	708	11	US-11-079-463-6575	Sequence 6575, App	197	28	66.7	458	11	US-11-087-039-9884	Sequence 9884, App
125	29	69.0	737	11	US-11-188-298-5994	Sequence 5994, App	198	28	66.7	458	11	US-11-188-238-9133	Sequence 9133, App
126	29	69.0	773	11	US-11-188-298-19352	Sequence 19352, A	199	28	66.7	463	11	US-11-087-039-7347	Sequence 7347, App
127	29	69.0	779	11	US-11-186-284-151	Sequence 151, App	200	28	66.7	463	11	US-11-188-238-6739	Sequence 6739, App
128	29	69.0	787	11	US-11-188-298-20334	Sequence 20334, A	201	28	66.7	466	11	US-11-188-238-19413	Sequence 19413, A
129	29	69.0	800	11	US-11-188-298-2496	Sequence 2496, App	202	28	66.7	473	11	US-11-188-238-2143	Sequence 2143, App
130	29	69.0	806	11	US-11-188-298-11019	Sequence 11019, A	203	28	66.7	484	9	US-10-467-657-6816	Sequence 6816, App
131	29	69.0	806	11	US-11-188-298-18451	Sequence 18451, A	204	28	66.7	488	11	US-11-188-238-2834	Sequence 2834, App
132	29	69.0	811	11	US-11-188-298-16441	Sequence 16441, A	205	28	66.7	498	11	US-11-079-463-6018	Sequence 6018, App
133	29	69.0	836	9	US-10-921-793-84	Sequence 84, Appl1	206	28	66.7	506	11	US-11-188-238-1859	Sequence 1859, App
134	29	69.0	836	9	US-10-931-198-84	Sequence 84, Appl1	207	28	66.7	506	11	US-11-188-238-13842	Sequence 13842, A
135	29	69.0	836	9	US-10-942-042-84	Sequence 84, Appl1	208	28	66.7	510	11	US-11-188-238-2046	Sequence 2046, App
136	29	69.0	836	11	US-11-186-284-149	Sequence 149, App	209	28	66.7	517	11	US-11-188-238-3488	Sequence 3488, App
137	29	69.0	836	11	US-11-183-261-53	Sequence 53, Appl1	210	28	66.7	520	11	US-11-188-238-12276	Sequence 12276, A
138	29	69.0	860	11	US-11-188-298-3098	Sequence 3098, App	211	28	66.7	530	11	US-11-188-238-5666	Sequence 5666, App
139	29	69.0	860	11	US-11-188-298-11604	Sequence 11604, A	212	28	66.7	534	11	US-11-188-238-17731	Sequence 17731, App
140	29	69.0	1033	11	US-11-037-243-75	Sequence 75, Appl1	213	28	66.7	545	11	US-11-096-568A-28124	Sequence 28124, App
141	29	69.0	1036	9	US-10-494-026A-2	Sequence 2, Appl1	214	28	66.7	548	11	US-11-045-004-1058	Sequence 1058, App
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143	28	66.7	15	9	US-10-530-061-1733	Sequence 1733, App	216	28	66.7	564	9	US-10-485-517-253	Sequence 253, App
144	28	66.7	15	9	US-10-530-061-1734	Sequence 1734, App	217	28	66.7	564	9	US-10-485-517-253	Sequence 253, App
145	28	66.7	32	9	US-10-895-064-2806	Sequence 2806, App	218	28	66.7	624	11	US-11-188-238-13475	Sequence 13475, A
146	28	66.7	32	11	US-11-129-741-2806	Sequence 2806, App	219	28	66.7	628	11	US-11-082-389-402	Sequence 402, App
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148	28	66.7	96	9	US-10-511-538-245	Sequence 245, App	221	28	66.7	628	11	US-11-045-004-807	Sequence 807, App
149	28	66.7	99	9	US-10-530-253-34	Sequence 34, Appl1	222	28	66.7	699	11	US-11-096-568A-28540	Sequence 28540, A
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151	28	66.7	135	11	US-11-096-568A-16154	Sequence 16154, A	224	28	66.7	757	9	US-10-915-002-261	Sequence 261, App
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153	28	66.7	150	11	US-11-096-568A-24991	Sequence 24991, A	226	28	66.7	841	9	US-10-725-475-5	Sequence 5, Appl1
154	28	66.7	153	11	US-11-188-298-19085	Sequence 19085, A	227	28	66.7	841	11	US-11-050-804-2	Sequence 2, Appl1
155	28	66.7	176	11	US-11-096-568A-24990	Sequence 24990, A	228	28	66.7	862	11	US-11-096-568A-28539	Sequence 28539, App
156	28	66.7	180	9	US-10-467-657-3386	Sequence 3386, App	229	28	66.7	897	11	US-11-087-039-8319	Sequence 8319, App
157	28	66.7	180	11	US-11-172-740-1866	Sequence 1866, App	230	28	66.7	955	11	US-11-096-568A-28538	Sequence 28538, A
158	28	66.7	182	11	US-11-096-568A-24989	Sequence 24989, A	231	28	66.7	1021	11	US-11-188-238-14154	Sequence 14154, A
159	28	66.7	226	11	US-11-082-389-406	Sequence 406, App	232	28	66.7	1027	11	US-11-079-463-8899	Sequence 8899, App
160	28	66.7	237	9	US-10-793-626-3642	Sequence 2642, App	233	28	66.7	1046	9	US-10-392-234A-16	Sequence 16, Appl1
161	28	66.7	239	11	US-11-096-568A-16153	Sequence 16153, A	234	28	66.7	1089	11	US-11-098-666-10150	Sequence 10150, A
162	28	66.7	254	11	US-11-087-039-1210	Sequence 1210, App	235	28	66.7	1783	11	US-11-126-313-38	Sequence 38, Appl1
163	28	66.7	254	11	US-11-087-039-12382	Sequence 12382, A	236	28	66.7	19	11	US-11-242-294-61	Sequence 61, Appl1
164	28	66.7	258	11	US-11-087-039-3254	Sequence 3254, App	237	27	64.3	76	9	US-11-096-568A-8675	Sequence 8675, App
165	28	66.7	288	9	US-10-467-657-2234	Sequence 2234, App	238	27	64.3	85	9	US-10-475-057-795	Sequence 795, App
166	28	66.7	298	11	US-11-074-176-6	Sequence 6, Appl1	239	27	64.3	85	9	US-10-506-454-1345	Sequence 1345, App
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244	27	64.3	93	9	US-10-195-888-244	Sequence 244, App	317	27	64.3	339	11	US-11-188-298-312	Sequence 312, App
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246	27	64.3	95	9	US-10-506-454-473	Sequence 473, App	319	27	64.3	332	11	US-11-096-568A-20285	Sequence 20285, A
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248	27	64.3	117	9	US-10-467-657-1270	Sequence 1270, Ap	321	27	64.3	334	11	US-11-188-298-12554	Sequence 12554, A
249	27	64.3	119	9	US-10-467-657-1694	Sequence 4694, Ap	322	27	64.3	336	11	US-11-188-298-17094	Sequence 17094, A
250	27	64.3	137	11	US-11-000-463-342	Sequence 342, App	323	27	64.3	338	11	US-11-096-568A-3399	Sequence 3399, Ap
251	27	64.3	149	11	US-11-045-004-278	Sequence 278, App	324	27	64.3	338	11	US-11-096-568A-27520	Sequence 27520, A
252	27	64.3	169	11	US-11-096-568A-24880	Sequence 24880, A	325	27	64.3	339	11	US-11-096-568A-3398	Sequence 3398, Ap
253	27	64.3	172	11	US-11-096-568A-23468	Sequence 23468, A	326	27	64.3	351	11	US-11-096-568A-3398	Sequence 3298, Ap
254	27	64.3	173	11	US-11-018-868-6	Sequence 6, App1	327	27	64.3	351	11	US-11-045-004-2144	Sequence 2144, Ap
255	27	64.3	173	11	US-11-018-868-46	Sequence 46, App1	328	27	64.3	352	11	US-11-096-568A-7995	Sequence 7995, Ap
256	27	64.3	173	11	US-11-096-568A-224079	Sequence 24879, A	329	27	64.3	353	9	US-10-506-454-38	Sequence 38, App1
257	27	64.3	181	11	US-11-096-568A-22240	Sequence 22040, A	330	27	64.3	358	11	US-11-096-568A-27213	Sequence 27213, A
258	27	64.3	186	11	US-11-079-463-10413	Sequence 10413, A	331	27	64.3	360	11	US-11-096-568A-27212	Sequence 27212, A
259	27	64.3	191	9	US-10-793-626-638	Sequence 638, App	332	27	64.3	367	11	US-11-096-568A-20284	Sequence 20284, A
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262	27	64.3	193	11	US-11-096-568A-24647	Sequence 24647, A	335	27	64.3	379	11	US-11-096-568A-28935	Sequence 8906, Ap
263	27	64.3	195	11	US-11-087-099-3640	Sequence 3640, Ap	336	27	64.3	379	11	US-11-096-568A-8907	Sequence 8907, Ap
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265	27	64.3	201	9	US-10-195-883-108	Sequence 108, App	338	27	64.3	379	11	US-11-096-568A-27519	Sequence 8677, Ap
266	27	64.3	201	9	US-10-195-888-108	Sequence 108, App	339	27	64.3	382	11	US-11-188-298-8677	Sequence 22833, A
267	27	64.3	201	9	US-10-195-889-108	Sequence 108, App	340	27	64.3	382	11	US-11-096-568A-22839	Sequence 15291, A
268	27	64.3	201	9	US-10-216-161A-477	Sequence 477, App	341	27	64.3	384	11	US-11-096-568A-15291	Sequence 8905, Ap
269	27	64.3	208	9	US-10-131-826A-510	Sequence 510, App	342	27	64.3	385	11	US-11-096-568A-8905	Sequence 8905, Ap
270	27	64.3	208	9	US-10-973-115B-510	Sequence 510, App	343	27	64.3	385	11	US-11-096-568A-27211	Sequence 27211, A
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272	27	64.3	208	9	US-10-137-873A-510	Sequence 510, App	345	27	64.3	398	11	US-11-188-298-20681	Sequence 20681, A
273	27	64.3	208	9	US-10-152-370-510	Sequence 510, App	346	27	64.3	400	11	US-11-087-099-7949	Sequence 7949, Ap
274	27	64.3	208	11	US-11-280-153-510	Sequence 510, App	347	27	64.3	401	11	US-11-072-175-224	Sequence 224, App
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276	27	64.3	208	11	US-11-264-096-733	Sequence 733, App	349	27	64.3	402	11	US-11-096-568A-25398	Sequence 25398, A
277	27	64.3	208	11	US-11-264-096-734	Sequence 734, App	350	27	64.3	402	11	US-11-096-568A-22428	Sequence 22428, A
278	27	64.3	208	11	US-11-264-096-735	Sequence 735, App	351	27	64.3	407	11	US-11-188-298-10559	Sequence 10559, A
279	27	64.3	208	11	US-11-264-096-735	Sequence 735, App	352	27	64.3	408	11	US-11-096-568A-18440	Sequence 18440, A
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283	27	64.3	225	11	US-11-087-099-6421	Sequence 6421, Ap	356	27	64.3	412	11	US-11-096-568A-18439	Sequence 18439, Ap
284	27	64.3	225	11	US-11-096-568A-20016	Sequence 20016, A	357	27	64.3	412	11	US-11-188-298-5513	Sequence 5513, Ap
285	27	64.3	231	9	US-10-884-730-367	Sequence 367, App	358	27	64.3	412	11	US-11-188-298-21261	Sequence 21261, A
286	27	64.3	231	9	US-10-884-730-368	Sequence 368, App	359	27	64.3	412	11	US-11-096-568A-25398	Sequence 1536, Ap
287	27	64.3	231	9	US-10-884-730-369	Sequence 369, App	360	27	64.3	417	9	US-10-821-234-1536	Sequence 18438, A
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291	27	64.3	232	11	US-11-188-298-13645	Sequence 13645, A	364	27	64.3	429	11	US-11-050-857-637	Sequence 1117, Ap
292	27	64.3	237	11	US-11-188-298-17423	Sequence 17423, A	365	27	64.3	429	11	US-11-051-120-1317	Sequence 21109, A
293	27	64.3	237	11	US-11-188-298-17423	Sequence 22516, A	366	27	64.3	434	9	US-10-506-454-552	Sequence 552, App
294	27	64.3	239	11	US-11-188-298-22516	Sequence 24644, A	367	27	64.3	434	11	US-11-050-857-635	Sequence 635, App
295	27	64.3	243	11	US-11-096-568A-11086	Sequence 11086, A	368	27	64.3	434	11	US-11-051-120-1315	Sequence 1315, Ap
296	27	64.3	244	11	US-11-096-568A-24644	Sequence 24644, A	369	27	64.3	440	11	US-11-098-568A-10923	Sequence 10923, A
297	27	64.3	244	11	US-11-096-568A-23466	Sequence 23466, A	370	27	64.3	440	11	US-11-087-099-11790	Sequence 11790, A
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301	27	64.3	260	11	US-11-172-740-2242	Sequence 2242, Ap	374	27	64.3	447	11	US-11-188-298-1951	Sequence 7951, Ap
302	27	64.3	266	11	US-11-045-004-1034	Sequence 1034, Ap	375	27	64.3	451	11	US-11-188-298-6556	Sequence 6556, App
303	27	64.3	267	9	US-10-627-952-20	Sequence 20, App1	376	27	64.3	454	11	US-11-087-099-6722	Sequence 6722, Ap
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307	27	64.3	283	11	US-11-079-463-8169	Sequence 8169, App	380	27	64.3	458	11	US-11-087-099-6722	Sequence 2722, App
308	27	64.3	290	11	US-11-087-099-10861	Sequence 10861, A	381	27	64.3	458	11	US-11-087-099-6587	Sequence 6587, Ap
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310	27	64.3	301	11	US-11-079-463-6727	Sequence 6727, Ap	383	27	64.3	464	11	US-11-051-120-1314	Sequence 1314, Ap
311	27	64.3	304	11	US-11-098-666-11004	Sequence 11004, A	384	27	64.3	466	11	US-11-096-568A-25397	Sequence 25397, A
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313	27	64.3	316	11	US-11-096-568A-3300	Sequence 3300, Ap	386	27	64.3	472	9	US-10-467-657-6774	Sequence 6774, Ap

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390	27	64.3	482	11	US-11-198-886-31	Sequence 31, Appl	463	26	61.9	164	9	US-10-714-887-334	Sequence 334, App
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392	27	64.3	492	9	US-10-793-626-770	Sequence 770, App	465	26	61.9	169	11	US-11-072-512-3549	Sequence 3549, Ap
393	27	64.3	492	11	US-11-188-298-21676	Sequence 21676, A	466	26	61.9	170	11	US-11-087-099-4603	Sequence 4603, Ap
394	27	64.3	493	11	US-11-087-099-5102	Sequence 5102, Ap	467	26	61.9	172	11	US-11-188-298-21182	Sequence 21182, A
395	27	64.3	496	11	US-11-188-298-8567	Sequence 8567, Ap	468	26	61.9	173	11	US-11-096-568A-1122	Sequence 1122, Ap
396	27	64.3	500	11	US-11-188-298-7890	Sequence 7890, Ap	469	26	61.9	174	11	US-11-087-099-12023	Sequence 12023, A
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398	27	64.3	511	11	US-11-087-099-10617	Sequence 10617, A	471	26	61.9	178	11	US-11-188-298-19891	Sequence 19891, A
399	27	64.3	511	11	US-11-188-298-9818	Sequence 9818, Ap	472	26	61.9	180	11	US-11-172-740-1863	Sequence 1863, Ap
400	27	64.3	512	11	US-11-087-099-262	Sequence 262, App	473	26	61.9	180	11	US-11-172-740-1864	Sequence 1864, Ap
401	27	64.3	518	11	US-11-096-568A-25396	Sequence 25396, A	474	26	61.9	180	11	US-11-172-740-1865	Sequence 1865, Ap
402	27	64.3	533	11	US-11-188-298-12288	Sequence 12288, A	475	26	61.9	189	11	US-11-188-298-22339	Sequence 22339, A
403	27	64.3	540	9	US-10-485-517-223	Sequence 223, App	476	26	61.9	191	9	US-10-644-807-422	Sequence 422, App
404	27	64.3	559	11	US-11-188-298-98829	Sequence 9829, Ap	477	26	61.9	195	11	US-11-096-568A-11653	Sequence 11653, A
405	27	64.3	587	11	US-11-188-298-5880	Sequence 5880, Ap	478	26	61.9	198	11	US-11-096-568A-1121	Sequence 1121, Ap
406	27	64.3	594	9	US-10-997-247-2	Sequence 2, Appl1	479	26	61.9	202	11	US-11-087-099-10419	Sequence 10419, A
407	27	64.3	594	11	US-11-130-559-2	Sequence 2, Appl1	480	26	61.9	205	9	US-10-793-626-202	Sequence 202, App
408	27	64.3	602	11	US-11-079-463-6002	Sequence 6002, Ap	481	26	61.9	209	11	US-11-096-568A-4294	Sequence 4294, Ap
409	27	64.3	632	11	US-11-188-298-3895	Sequence 3895, Ap	482	26	61.9	210	11	US-11-096-568A-4293	Sequence 4293, Ap
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411	27	64.3	635	11	US-11-188-298-18018	Sequence 18018, A	484	26	61.9	212	7	US-09-978-360A-426	Sequence 426, App
412	27	64.3	643	11	US-11-188-298-13147	Sequence 13147, A	485	26	61.9	215	11	US-11-098-666-10440	Sequence 10440, A
413	27	64.3	656	11	US-11-188-298-17971	Sequence 17971, A	486	26	61.9	221	11	US-11-096-568A-4292	Sequence 4292, Ap
414	27	64.3	657	11	US-11-188-298-17950	Sequence 17950, A	487	26	61.9	221	11	US-11-096-568A-26111	Sequence 26111, A
415	27	64.3	658	11	US-11-072-175-163	Sequence 163, App	488	26	61.9	226	11	US-11-264-096-1247	Sequence 1247, Ap
416	27	64.3	681	11	US-11-087-099-7473	Sequence 7473, Ap	489	26	61.9	228	11	US-11-087-099-11122	Sequence 11122, A
417	27	64.3	729	11	US-11-188-298-13328	Sequence 13328, A	490	26	61.9	228	11	US-11-096-568A-25165	Sequence 25165, A
418	27	64.3	758	11	US-11-087-099-7427	Sequence 7427, Ap	491	26	61.9	229	11	US-11-087-099-860	Sequence 860, App
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420	27	64.3	840	9	US-10-725-475-16	Sequence 16, Appl	493	26	61.9	232	11	US-11-096-568A-11652	Sequence 11652, A
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422	27	64.3	214	11	US-11-043-889-2	Sequence 2, Appl1	495	26	61.9	237	11	US-11-098-666-11055	Sequence 11055, A
423	27	64.3	3157	11	US-11-052-554A-142	Sequence 142, App	496	26	61.9	242	11	US-11-087-099-10602	Sequence 10602, A
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425	27	64.3	3960	9	US-10-995-561-771	Sequence 771, App	498	26	61.9	250	10	US-11-301-554-1677	Sequence 1677, Ap
426	27	64.3	5335	9	US-10-995-561-777	Sequence 777, App	499	26	61.9	250	10	US-11-301-554-1874	Sequence 1874, Ap
427	27	64.3	5406	9	US-10-995-561-774	Sequence 774, App	500	26	61.9	250	10	US-11-301-554-2004	Sequence 2004, Ap
428	27	64.3	5415	9	US-10-995-561-779	Sequence 779, App	501	26	61.9	250	11	US-11-055-822-818	Sequence 818, App
429	27	64.3	5464	9	US-10-995-561-775	Sequence 775, App	502	26	61.9	252	9	US-10-506-454-1373	Sequence 1373, Ap
430	27	64.3	5935	9	US-10-995-561-776	Sequence 776, App	503	26	61.9	254	9	US-10-995-561-1021	Sequence 1021, Ap
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433	26	61.9	62	11	US-11-188-298-15433	Sequence 15433, A	506	26	61.9	257	11	US-11-188-298-18465	Sequence 18465, A
434	26	61.9	76	11	US-11-096-568A-30950	Sequence 30950, A	507	26	61.9	258	11	US-11-096-568A-5061	Sequence 5061, Ap
435	26	61.9	80	11	US-11-264-096-845	Sequence 845, App	508	26	61.9	260	8	US-10-511-937-2438	Sequence 2438, Ap
436	26	61.9	95	11	US-11-079-463-9865	Sequence 9865, Ap	509	26	61.9	260	8	US-10-511-937-2970	Sequence 2970, Ap
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438	26	61.9	113	11	US-11-096-568A-12061	Sequence 12061, A	511	26	61.9	260	9	US-10-995-561-550	Sequence 550, App
439	26	61.9	125	9	US-10-644-807-243	Sequence 243, App	512	26	61.9	260	9	US-10-995-561-551	Sequence 551, App
440	26	61.9	125	9	US-10-644-807-336	Sequence 336, App	513	26	61.9	261	9	US-10-878-556A-180	Sequence 180, App
441	26	61.9	126	9	US-10-492-570-1925	Sequence 1925, Ap	514	26	61.9	263	8	US-10-505-928-610	Sequence 610, App
442	26	61.9	126	9	US-11-087-099-8560	Sequence 8560, Ap	515	26	61.9	263	9	US-10-131-826A-484	Sequence 484, App
443	26	61.9	137	11	US-11-096-568A-12060	Sequence 12060, A	516	26	61.9	263	9	US-10-821-234-1403	Sequence 1403, App
444	26	61.9	139	9	US-10-793-626-2992	Sequence 2992, Appl	517	26	61.9	263	9	US-10-954-468-45	Sequence 45, Appl
445	26	61.9	139	9	US-10-504-389A-28	Sequence 28, Appl	518	26	61.9	263	9	US-10-973-115B-484	Sequence 484, App
446	26	61.9	140	11	US-11-193-512-27	Sequence 27, Appl	519	26	61.9	263	9	US-10-137-873A-484	Sequence 484, App
447	26	61.9	140	11	US-11-193-512-63	Sequence 63, Appl	520	26	61.9	263	9	US-10-152-370-484	Sequence 484, App
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449	26	61.9	140	11	US-11-193-512-78	Sequence 78, Appl	522	26	61.9	263	11	US-11-290-153-484	Sequence 484, App
450	26	61.9	140	11	US-11-193-512-83	Sequence 83, Appl	523	26	61.9	264	11	US-11-096-568A-5060	Sequence 5060, Ap
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453	26	61.9	142	11	US-11-170-453-7	Sequence 7, Appl1	526	26	61.9	268	11	US-11-096-568A-4059	Sequence 5059, App
454	26	61.9	143	9	US-10-714-887-336	Sequence 336, App	527	26	61.9	271	11	US-11-096-568A-22291	Sequence 22291, A
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535	26	61.9	286	10	US-11-301-554-1878	Sequence 1878, Ap	608	26	61.9	420	9	US-10-467-657-5226	Sequence 5226, Ap
536	26	61.9	286	11	US-11-240-769-96	Sequence 96, Ap1	609	26	61.9	424	9	US-10-995-561-1017	Sequence 1017, Ap
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551	26	61.9	306	11	US-11-188-298-18241	Sequence 18241, A	624	26	61.9	447	9	US-10-493-909-82	Sequence 82, Ap1
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561	26	61.9	321	11	US-11-087-099-5156	Sequence 5156, Ap	634	26	61.9	454	11	US-11-264-096-713	Sequence 713, App
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563	26	61.9	321	11	US-11-087-099-12443	Sequence 12443, A	636	26	61.9	455	11	US-11-096-568A-33316	Sequence 33316, A
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572	26	61.9	334	11	US-11-269-215-16	Sequence 16, Ap1	645	26	61.9	475	11	US-11-087-099-5183	Sequence 5183, Ap
573	26	61.9	334	11	US-11-264-096-1246	Sequence 1246, Ap	646	26	61.9	475	11	US-11-096-568A-31619	Sequence 31619, A
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576	26	61.9	337	11	US-11-045-004-766	Sequence 766, App	649	26	61.9	478	11	US-11-087-099-7103	Sequence 7103, Ap
577	26	61.9	337	11	US-11-269-215-15	Sequence 15, Ap1	650	26	61.9	481	9	US-10-512-376-5	Sequence 5, Ap11
578	26	61.9	338	11	US-11-087-099-7378	Sequence 7378, Ap	651	26	61.9	482	11	US-11-096-568A-27735	Sequence 27735, Ap
579	26	61.9	344	11	US-11-079-463-9234	Sequence 9234, Ap	652	26	61.9	488	11	US-11-087-099-2739	Sequence 2729, Ap
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582	26	61.9	347	11	US-11-188-298-11437	Sequence 11437, A	655	26	61.9	495	11	US-11-124-367A-349	Sequence 349, App
583	26	61.9	349	9	US-10-485-517-417	Sequence 417, App	656	26	61.9	497	11	US-11-143-380-61	Sequence 61, App
584	26	61.9	350	11	US-11-079-463-6050	Sequence 6050, Ap	657	26	61.9	498	11	US-11-096-568A-6429	Sequence 6429, Ap
585	26	61.9	350	11	US-11-045-004-1729	Sequence 1729, Ap	658	26	61.9	498	11	US-11-188-298-6602	Sequence 6602, Ap
586	26	61.9	350	11	US-11-144-947-452	Sequence 452, App	659	26	61.9	501	11	US-11-113-424-68	Sequence 68, Ap1
587	26	61.9	353	11	US-11-087-099-6584	Sequence 6584, Ap	660	26	61.9	501	11	US-11-096-568A-20831	Sequence 20831, A
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590	26	61.9	357	11	US-11-080-991-60	Sequence 60, Ap1	663	26	61.9	505	11	US-10-493-909-81	Sequence 81, Ap1
591	26	61.9	357	11	US-11-163-041-159	Sequence 159, App	664	26	61.9	505	11	US-11-087-099-963	Sequence 963, App
592	26	61.9	357	11	US-11-087-099-7624	Sequence 7624, App	665	26	61.9	507	11	US-11-124-67A-351	Sequence 351, App
593	26	61.9	358	9	US-10-467-657-6970	Sequence 6970, Ap	666	26	61.9	510	11	US-11-096-568A-31085	Sequence 31085, A
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595	26	61.9	367	11	US-11-096-568A-4296	Sequence 4296, Ap	668	26	61.9	513	9	US-10-873-528-37	Sequence 37, App
596	26	61.9	369	11	US-11-087-099-1385	Sequence 1385, Ap	669	26	61.9	516	11	US-11-188-298-6428	Sequence 6428, Ap
597	26	61.9	380	9	US-10-506-454-1547	Sequence 1547, Ap	670	26	61.9	516	11	US-11-087-099-1803	Sequence 1803, Ap
598	26	61.9	382	10	US-11-188-298-15454	Sequence 15454, A	671	26	61.9	520	11	US-11-087-099-9401	Sequence 9401, A
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601	26	61.9	390	11	US-11-188-298-3873	Sequence 3873, Ap	674	26	61.9	526	9	US-11-096-568A-6427	Sequence 6427, Ap
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603	26	61.9	395	11	US-11-096-568A-27736	Sequence 27736, A	676	26	61.9	530	11	US-11-188-298-14350	Sequence 14350, A
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605	26	61.9	404	11	US-11-188-298-5125	Sequence 5125, Ap	678	26	61.9	532	8	US-10-505-928-499	Sequence 499, App

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680	26	61.9	532	9	US-10-995-561-897	Sequence 897, App	753	26	61.9	1070	11	US-11-087-099-5857	Sequence 5857, Ap
681	26	61.9	532	9	US-10-493-909-2	Sequence 2, Appl1	754	26	61.9	1160	9	US-10-995-561-1019	Sequence 1019, Ap
682	26	61.9	532	9	US-10-493-909-63	Sequence 63, Appl	755	26	61.9	1175	11	US-11-188-298-22492	Sequence 22492, A
683	26	61.9	532	11	US-11-104-812-2	Sequence 2, Appl1	756	26	61.9	1234	9	US-10-528-031-147	Sequence 47, Appl
684	26	61.9	532	11	US-11-105-279-2	Sequence 2, Appl1	757	26	61.9	1302	9	US-10-995-561-1024	Sequence 1024, Ap
685	26	61.9	532	11	US-11-107-028-22	Sequence 22, Appl	758	26	61.9	1306	9	US-10-995-561-1027	Sequence 1027, Ap
686	26	61.9	532	11	US-11-043-788-307	Sequence 307, App	759	26	61.9	1367	11	US-11-045-004-2396	Sequence 2496, Ap
687	26	61.9	532	11	US-11-043-788-308	Sequence 308, App	760	26	61.9	1912	11	US-11-188-493-64	Sequence 64, Appl
688	26	61.9	541	11	US-11-169-041-136	Sequence 136, App	761	26	61.9	2070	11	US-11-188-298-15390	Sequence 19390, A
689	26	61.9	545	11	US-11-188-298-2157	Sequence 2157, App	762	26	61.9	2215	8	US-10-505-928-310	Sequence 310, App
690	26	61.9	546	11	US-11-096-568A-31804	Sequence 31804, A	763	25.5	60.7	358	11	US-11-188-298-16059	Sequence 16059, A
691	26	61.9	550	11	US-11-188-298-7256	Sequence 7256, Ap	764	25.5	60.7	774	11	US-11-070-627-7	Sequence 7, Appl1
692	26	61.9	552	9	US-10-131-826A-332	Sequence 332, App	765	25	59.5	56	11	US-11-096-568A-8131	Sequence 8131, Ap
693	26	61.9	552	9	US-10-973-1158-332	Sequence 332, App	766	25	59.5	60	11	US-11-004-339-2248	Sequence 2248, Ap
694	26	61.9	552	9	US-10-137-873A-332	Sequence 332, App	767	25	59.5	72	9	US-10-644-807-438	Sequence 438, App
695	26	61.9	552	9	US-10-152-370-332	Sequence 332, App	768	25	59.5	82	9	US-10-485-517-372	Sequence 372, App
696	26	61.9	552	11	US-11-087-099-9304	Sequence 9304, Ap	769	25	59.5	90	11	US-11-000-463-371	Sequence 371, App
697	26	61.9	552	11	US-11-290-153-332	Sequence 332, App	770	25	59.5	90	11	US-11-000-463-843	Sequence 843, App
698	26	61.9	560	9	US-10-995-561-1026	Sequence 1026, Ap	771	25	59.5	103	11	US-11-188-298-15255	Sequence 15255, A
699	26	61.9	567	11	US-11-096-568A-31803	Sequence 31803, A	772	25	59.5	104	9	US-10-986-405-260	Sequence 260, App
700	26	61.9	567	11	US-11-188-298-9207	Sequence 9207, App	773	25	59.5	115	11	US-10-492-570-1924	Sequence 1924, App
701	26	61.9	568	11	US-11-188-298-2609	Sequence 2609, Ap	774	25	59.5	115	11	US-11-008-570-102	Sequence 102, App
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703	26	61.9	569	11	US-11-096-568A-30643	Sequence 30643, A	776	25	59.5	118	11	US-11-008-570-94	Sequence 94, Appl
704	26	61.9	575	9	US-10-915-002-402	Sequence 202, App	777	25	59.5	118	11	US-11-008-570-98	Sequence 98, Appl
705	26	61.9	579	11	US-11-188-298-6163	Sequence 6163, Ap	778	25	59.5	118	11	US-11-096-568A-1402	Sequence 1402, Ap
706	26	61.9	582	11	US-11-096-568A-24623	Sequence 24623, A	779	25	59.5	126	9	US-10-492-570-1920	Sequence 1920, Ap
707	26	61.9	585	11	US-11-096-568A-31084	Sequence 31084, A	780	25	59.5	131	9	US-10-506-454-1183	Sequence 1183, Ap
708	26	61.9	586	11	US-11-096-568A-33385	Sequence 33385, A	781	25	59.5	131	11	US-11-188-298-3917	Sequence 3917, Ap
709	26	61.9	590	11	US-11-096-568A-12737	Sequence 12737, A	782	25	59.5	132	11	US-11-096-568A-8663	Sequence 8663, Ap
710	26	61.9	593	11	US-11-188-298-21880	Sequence 21880, A	783	25	59.5	133	11	US-11-113-424-8	Sequence 10, Appl
711	26	61.9	596	11	US-11-096-568A-31802	Sequence 31802, A	784	25	59.5	133	11	US-11-096-568A-20141	Sequence 20141, A
712	26	61.9	596	11	US-11-188-298-8338	Sequence 8338, Ap	785	25	59.5	138	11	US-11-072-512-3612	Sequence 3612, Ap
713	26	61.9	601	11	US-11-096-568A-33384	Sequence 33384, Ap	786	25	59.5	139	11	US-11-072-512-3867	Sequence 3867, Ap
714	26	61.9	605	11	US-11-096-568A-24622	Sequence 24622, A	787	25	59.5	140	11	US-11-096-568A-30294	Sequence 30294, A
715	26	61.9	615	11	US-11-096-568A-31197	Sequence 31197, A	788	25	59.5	142	11	US-11-074-176-112	Sequence 112, App
716	26	61.9	616	9	US-10-995-561-1018	Sequence 1018, Ap	789	25	59.5	144	11	US-11-188-298-382	Sequence 382, App
717	26	61.9	616	9	US-10-995-561-1022	Sequence 1022, Ap	790	25	59.5	148	11	US-11-052-554A-359	Sequence 359, App
718	26	61.9	616	11	US-11-087-099-1447	Sequence 1447, Ap	791	25	59.5	148	11	US-11-079-463-10156	Sequence 10156, A
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720	26	61.9	627	11	US-11-122-144-6	Sequence 6, Appl1	793	25	59.5	153	11	US-11-096-568A-8662	Sequence 8662, App
721	26	61.9	631	11	US-11-188-298-4366	Sequence 4366, Ap	794	25	59.5	154	11	US-11-096-568A-8661	Sequence 8661, Ap
722	26	61.9	631	11	US-11-188-298-8127	Sequence 8127, Ap	795	25	59.5	157	11	US-11-234-788-589	Sequence 589, App
723	26	61.9	633	11	US-11-087-099-11505	Sequence 11505, A	796	25	59.5	160	11	US-11-096-568A-11185	Sequence 11185, A
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726	26	61.9	647	11	US-11-188-298-15615	Sequence 15615, A	799	25	59.5	166	11	US-11-008-570-1065	Sequence 112, App
727	26	61.9	659	9	US-10-467-657-6006	Sequence 6006, Ap	800	25	59.5	170	11	US-11-096-568A-24776	Sequence 24776, A
728	26	61.9	660	11	US-11-096-568A-33383	Sequence 33383, A	801	25	59.5	171	11	US-11-096-568A-1481	Sequence 1481, Ap
729	26	61.9	665	9	US-10-455-772-1126	Sequence 1126, Ap	802	25	59.5	172	11	US-11-087-099-15055	Sequence 12055, A
730	26	61.9	671	11	US-11-079-463-8638	Sequence 8638, Ap	803	25	59.5	172	11	US-11-079-463-6028	Sequence 6028, Ap
731	26	61.9	673	11	US-11-096-568A-24621	Sequence 24621, A	804	25	59.5	174	11	US-11-087-099-9804	Sequence 9804, Ap
732	26	61.9	673	11	US-11-079-463-6405	Sequence 6405, Ap	805	25	59.5	176	9	US-10-194-487-430	Sequence 430, App
733	26	61.9	679	11	US-11-188-298-6682	Sequence 6682, Ap	806	25	59.5	176	9	US-10-195-883-430	Sequence 430, App
734	26	61.9	691	11	US-11-188-298-8747	Sequence 8747, Ap	807	25	59.5	176	9	US-10-195-888-430	Sequence 430, App
735	26	61.9	696	11	US-11-188-298-19081	Sequence 19081, A	808	25	59.5	176	9	US-10-195-888-430	Sequence 430, App
736	26	61.9	697	9	US-10-703-7998-226	Sequence 226, App	809	25	59.5	177	11	US-11-045-004-2701	Sequence 2701, Ap
737	26	61.9	697	11	US-11-082-389-362	Sequence 362, App	810	25	59.5	184	11	US-11-090-439-13	Sequence 13, Appl
738	26	61.9	707	11	US-11-096-568A-31196	Sequence 31196, A	811	25	59.5	184	11	US-11-096-568A-4986	Sequence 4986, Ap
739	26	61.9	709	11	US-11-087-099-1066	Sequence 1066, Ap	812	25	59.5	184	11	US-11-097-960-13	Sequence 13, Appl
740	26	61.9	722	11	US-11-043-889-10	Sequence 10, Appl	813	25	59.5	184	11	US-11-264-096-840	Sequence 840, App
741	26	61.9	725	11	US-11-096-568A-31195	Sequence 31195, A	814	25	59.5	184	11	US-11-264-096-1248	Sequence 1248, Ap
742	26	61.9	732	9	US-10-518-599-23	Sequence 23, Appl	815	25	59.5	184	11	US-11-264-096-1249	Sequence 1249, Ap
743	26	61.9	732	9	US-10-995-561-1020	Sequence 1020, App	816	25	59.5	190	11	US-11-188-298-15108	Sequence 15108, A
744	26	61.9	739	9	US-10-506-454-014	Sequence 914, App	817	25	59.5	192	11	US-11-096-568A-8275	Sequence 8275, Ap
745	26	61.9	744	11	US-11-045-004-2659	Sequence 2659, Ap	818	25	59.5	194	11	US-11-096-568A-4985	Sequence 4985, Ap
746	26	61.9	747	11	US-11-210-316-2	Sequence 2, Appl1	819	25	59.5	196	9	US-10-793-626-2584	Sequence 2584, Ap
747	26	61.9	789	11	US-11-188-298-279	Sequence 279, App	820	25	59.5	196	11	US-11-087-099-11991	Sequence 11991, A
748	26	61.9	814	11	US-11-096-568A-30418	Sequence 30418, A	821	25	59.5	198	11	US-11-082-389-74	Sequence 74, Appl
749	26	61.9	819	11	US-11-079-463-7787	Sequence 7787, Ap	822	25	59.5	198	11	US-11-096-568A-20140	Sequence 20140, A
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825	25	59.5	204	11	US-11-045-004-1419	Sequence 1419, Ap	898	25	59.5	310	11	US-11-188-298-8689	Sequence 8689, Ap
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828	25	59.5	224	11	US-11-096-568A-1480	Sequence 1480, Ap	901	25	59.5	314	11	US-11-008-570-43	Sequence 43, Appl
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831	25	59.5	225	11	US-11-188-298-22183	Sequence 22183, A	904	25	59.5	316	11	US-11-188-298-15032	Sequence 15032, A
832	25	59.5	228	7	US-09-978-360A-516	Sequence 516, App	905	25	59.5	320	11	US-11-188-298-4001	Sequence 4001, Ap
833	25	59.5	229	11	US-11-096-568A-10434	Sequence 10434, A	906	25	59.5	320	11	US-11-188-298-9491	Sequence 9491, Ap
834	25	59.5	230	11	US-11-087-099-4696	Sequence 4696, Ap	907	25	59.5	321	11	US-11-188-298-13563	Sequence 13563, A
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836	25	59.5	231	11	US-11-024-859-320	Sequence 320, App	909	25	59.5	324	11	US-11-188-298-7728	Sequence 7728, Ap
837	25	59.5	231	11	US-11-024-859-322	Sequence 322, App	910	25	59.5	326	11	US-11-188-298-21103	Sequence 21103, A
838	25	59.5	231	11	US-11-050-857-254	Sequence 254, App	911	25	59.5	328	11	US-11-207-626A-35	Sequence 35, Appl
839	25	59.5	232	11	US-11-079-463-10258	Sequence 10258, A	912	25	59.5	328	11	US-11-113-424-40	Sequence 40, Appl
840	25	59.5	233	9	US-10-858-730-234	Sequence 234, App	913	25	59.5	329	11	US-11-045-004-641	Sequence 641, App
841	25	59.5	233	11	US-11-055-822-54	Sequence 54, Appl	914	25	59.5	330	11	US-11-087-099-4487	Sequence 4487, Ap
842	25	59.5	233	11	US-11-239-674-52	Sequence 52, Appl	915	25	59.5	330	11	US-11-087-099-7657	Sequence 7657, Ap
843	25	59.5	234	11	US-11-096-568A-7573	Sequence 7573, Ap	916	25	59.5	331	9	US-10-216-161A-236	Sequence 236, App
844	25	59.5	235	11	US-11-096-568A-1479	Sequence 1479, Ap	917	25	59.5	331	11	US-11-087-099-11371	Sequence 11371, A
845	25	59.5	240	11	US-11-045-004-1851	Sequence 1851, Ap	918	25	59.5	332	11	US-11-203-526-40	Sequence 40, Appl
846	25	59.5	242	11	US-11-096-568A-10433	Sequence 10433, A	919	25	59.5	332	11	US-11-098-570-40	Sequence 40, Appl
847	25	59.5	245	9	US-10-242-586-4	Sequence 4, Appl	920	25	59.5	333	11	US-11-098-686-11282	Sequence 11282, A
848	25	59.5	245	9	US-10-242-902-4	Sequence 4, Appl	921	25	59.5	333	11	US-11-079-463-6233	Sequence 6233, Ap
849	25	59.5	245	9	US-10-243-116-4	Sequence 4, Appl	922	25	59.5	335	11	US-11-096-568A-18414	Sequence 18414, A
850	25	59.5	245	9	US-10-243-136-4	Sequence 4, Appl	923	25	59.5	337	11	US-10-485-517-234	Sequence 234, App
851	25	59.5	245	9	US-10-243-189-4	Sequence 4, Appl	924	25	59.5	337	11	US-11-096-568A-18413	Sequence 18413, A
852	25	59.5	245	9	US-10-243-215-4	Sequence 4, Appl	925	25	59.5	337	11	US-11-188-298-6428	Sequence 6428, Ap
853	25	59.5	245	9	US-10-243-236-4	Sequence 4, Appl	926	25	59.5	338	11	US-11-096-568A-30107	Sequence 30107, A
854	25	59.5	245	9	US-10-243-238-4	Sequence 4, Appl	927	25	59.5	338	11	US-11-096-568A-20263	Sequence 20263, A
855	25	59.5	245	9	US-10-243-304-4	Sequence 4, Appl	928	25	59.5	340	11	US-11-129-143-43	Sequence 43, Appl
856	25	59.5	245	9	US-10-243-304-4	Sequence 4, Appl	929	25	59.5	341	11	US-11-079-463-5955	Sequence 5955, Ap
857	25	59.5	245	9	US-10-243-345-4	Sequence 4, Appl	930	25	59.5	342	11	US-11-188-298-10173	Sequence 10173, A
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859	25	59.5	245	9	US-10-245-083-4	Sequence 4, Appl	932	25	59.5	345	11	US-11-096-568A-31257	Sequence 31257, A
860	25	59.5	245	9	US-10-247-015-4	Sequence 4, Appl	933	25	59.5	345	11	US-11-264-627-6	Sequence 6, Appl
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862	25	59.5	249	11	US-11-087-099-4378	Sequence 4378, Ap	935	25	59.5	346	11	US-11-096-568A-7291	Sequence 7291, Ap
863	25	59.5	249	11	US-11-096-568A-20139	Sequence 20139, A	936	25	59.5	346	11	US-11-079-463-8068	Sequence 8068, Ap
864	25	59.5	251	9	US-10-194-487-2	Sequence 2, Appl	937	25	59.5	347	11	US-11-188-298-4593	Sequence 4593, Ap
865	25	59.5	251	9	US-10-195-883-2	Sequence 2, Appl	938	25	59.5	348	11	US-11-082-389-218	Sequence 218, App
866	25	59.5	251	9	US-10-195-888-2	Sequence 2, Appl	939	25	59.5	350	11	US-11-087-099-2497	Sequence 2497, Ap
867	25	59.5	251	9	US-10-195-889-2	Sequence 2, Appl	940	25	59.5	350	11	US-11-087-099-11952	Sequence 11952, A
868	25	59.5	251	11	US-11-080-991-38	Sequence 38, Appl	941	25	59.5	350	11	US-11-045-004-2267	Sequence 2267, Ap
869	25	59.5	252	11	US-11-096-568A-6572	Sequence 6572, Ap	942	25	59.5	351	11	US-11-188-298-448	Sequence 448, App
870	25	59.5	254	11	US-11-096-568A-6571	Sequence 6571, Ap	943	25	59.5	352	7	US-09-978-360A-437	Sequence 437, App
871	25	59.5	255	11	US-11-115-086-11	Sequence 11, Appl	944	25	59.5	352	11	US-11-087-099-11864	Sequence 11864, A
872	25	59.5	256	7	US-09-995-493-8	Sequence 8, Appl	945	25	59.5	353	11	US-11-129-143-54	Sequence 54, Appl
873	25	59.5	256	11	US-11-054-515-1150	Sequence 1150, Ap	946	25	59.5	353	11	US-11-129-143-55	Sequence 55, Appl
874	25	59.5	256	11	US-11-266-444-1150	Sequence 1150, Ap	947	25	59.5	353	11	US-11-129-143-56	Sequence 56, Appl
875	25	59.5	258	11	US-11-055-822-10	Sequence 10, Appl	948	25	59.5	353	11	US-11-188-298-4314	Sequence 4314, Ap
876	25	59.5	258	11	US-11-239-674-16	Sequence 16, Appl	949	25	59.5	354	11	US-11-096-568A-17162	Sequence 17162, A
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878	25	59.5	266	11	US-11-096-568A-8274	Sequence 8274, Ap	951	25	59.5	356	11	US-11-188-298-15189	Sequence 15189, A
879	25	59.5	267	11	US-11-087-099-5704	Sequence 5704, Ap	952	25	59.5	359	11	US-11-129-143-71	Sequence 71, Appl
880	25	59.5	267	11	US-11-096-568A-7572	Sequence 7572, Ap	953	25	59.5	361	11	US-11-096-568A-30106	Sequence 30106, A
881	25	59.5	270	11	US-11-096-568A-17163	Sequence 17163, A	954	25	59.5	366	11	US-11-188-298-10761	Sequence 10761, A
882	25	59.5	280	11	US-11-072-512-3393	Sequence 3393, Ap	955	25	59.5	368	11	US-11-096-568A-28455	Sequence 28455, A
883	25	59.5	284	11	US-11-113-424-6	Sequence 6, Appl	956	25	59.5	370	11	US-11-079-463-8993	Sequence 8993, Ap
884	25	59.5	284	11	US-11-188-298-1033	Sequence 1033, Ap	957	25	59.5	371	11	US-11-087-099-4260	Sequence 4260, Ap
885	25	59.5	286	11	US-11-129-143-64	Sequence 64, Appl	958	25	59.5	371	11	US-11-096-568A-28454	Sequence 28454, A
886	25	59.5	292	11	US-11-045-004-8829	Sequence 2829, Ap	959	25	59.5	371	11	US-11-096-568A-29702	Sequence 29702, A
887	25	59.5	293	11	US-11-188-298-20385	Sequence 20385, A	960	25	59.5	371	11	US-11-188-298-21336	Sequence 21336, A
888	25	59.5	298	11	US-11-188-298-8544	Sequence 8544, Ap	961	25	59.5	372	11	US-11-143-980-37	Sequence 37, Appl
889	25	59.5	299	11	US-11-113-424-8	Sequence 8, Appl	962	25	59.5	372	11	US-11-087-099-412	Sequence 412, App
890	25	59.5	299	11	US-11-188-298-20307	Sequence 20307, A	963	25	59.5	373	11	US-11-087-099-10086	Sequence 10086, A
891	25	59.5	303	11	US-11-045-004-253	Sequence 253, App	964	25	59.5	373	11	US-11-096-568A-28453	Sequence 28453, A
892	25	59.5	304	11	US-11-188-298-20481	Sequence 20481, A	965	25	59.5	373	11	US-11-096-568A-29701	Sequence 29701, A
893	25	59.5	307	9	US-10-467-657-6016	Sequence 6016, Ap	966	25	59.5	374	11	US-11-207-626A-23	Sequence 23, Appl
894	25	59.5	307	11	US-11-188-298-299	Sequence 299, App	967	25	59.5	374	11	US-11-096-568A-7290	Sequence 7290, Ap
895	25	59.5	307	11	US-11-188-298-6214	Sequence 6214, Ap	968	25	59.5	374	11	US-11-096-568A-17161	Sequence 17161, A
896	25	59.5	308	11	US-11-087-099-9954	Sequence 9954, Ap	969	25	59.5	374	11	US-11-096-568A-17161	Sequence 17161, A
897	25	59.5	310	11	US-11-096-568A-6570	Sequence 6570, Ap	970	25	59.5	375	11	US-11-188-298-6523	Sequence 6523, Ap


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971 25 59.5 376 11 US-11-075-185-15 Sequence 15, Appl
972 25 59.5 376 11 US-11-045-004-2720 Sequence 2720, Ap
973 25 59.5 377 11 US-11-096-568A-24504 Sequence 24504, A
974 25 59.5 378 11 US-11-096-568A-18412 Sequence 18412, A
975 25 59.5 379 11 US-11-096-568A-8273 Sequence 8273, Ap
976 25 59.5 380 11 US-11-087-099-11576 Sequence 11576, A
977 25 59.5 380 11 US-11-188-298-10692 Sequence 10692, A
978 25 59.5 382 11 US-11-264-627-4 Sequence 4, Appl1
979 25 59.5 383 11 US-11-072-512-3412 Sequence 3412, Ap
980 25 59.5 383 11 US-11-096-568A-29700 Sequence 29700, A
981 25 59.5 387 11 US-11-098-686-11142 Sequence 11142, A
982 25 59.5 387 11 US-11-087-099-935 Sequence 935, App
983 25 59.5 388 11 US-11-087-099-2727 Sequence 2727, Ap
984 25 59.5 391 11 US-11-082-389-172 Sequence 172, App
985 25 59.5 391 11 US-11-082-389-174 Sequence 174, App
986 25 59.5 391 11 US-11-188-298-608 Sequence 608, App
987 25 59.5 394 11 US-11-079-463-9758 Sequence 9758, Ap
988 25 59.5 394 11 US-11-188-298-5481 Sequence 5481, Ap
989 25 59.5 397 9 US-10-454-437-60 Sequence 60, Appl
990 25 59.5 398 9 US-10-703-7998-256 Sequence 256, App
991 25 59.5 398 11 US-11-096-568A-2519 Sequence 2519, Ap
992 25 59.5 398 11 US-11-096-568A-7289 Sequence 7289, Ap
993 25 59.5 399 9 US-10-533-811-63 Sequence 63, Appl
994 25 59.5 401 11 US-11-079-463-7895 Sequence 7895, Ap
995 25 59.5 403 9 US-10-467-657-7066 Sequence 7066, Ap
996 25 59.5 406 9 US-10-493-909-68 Sequence 68, Appl
997 25 59.5 406 11 US-11-107-028-7 Sequence 7, Appl1
998 25 59.5 406 11 US-11-264-627-2 Sequence 2, Appl1
999 25 59.5 408 11 US-11-188-298-19509 Sequence 19509, A
1000 25 59.5 409 9 US-10-506-454-334 Sequence 334, App
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ALIGNMENTS

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RESULT 1
US-10-530-061-1713
; Sequence 1713, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1713
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1713

Query Match      100.0%; Score 42; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.041;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 LLMGTLGIV 9
      |||||
Db      7 LLMGTLGIV 15

RESULT 2
US-10-530-061-1714
; Sequence 1714, Application US/10530061
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```
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1714
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1714

Query Match      100.0%; Score 42; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.041;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 LLMGTLGIV 9
      |||||
Db      4 LLMGTLGIV 12
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RESULT 3
US-10-530-061-1715
; Sequence 1715, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1715
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1715

Query Match      100.0%; Score 42; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.041;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 LLMGTLGIV 9
      |||||
Db      2 LLMGTLGIV 10

RESULT 4
US-10-511-814-8
; Sequence 8, Application US/10511814
; Publication No. US20060088472A1
; GENERAL INFORMATION:
; APPLICANT: McCance, Dennis
```



```
APPLICANT: Westbrook, III, Thomas F.
TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
FILE REFERENCE: 21108.0016U2
CURRENT APPLICATION NUMBER: US/10/511.814
CURRENT FILING DATE: 2004-10-19
PRIOR APPLICATION NUMBER: PCT/US03/12867
PRIOR FILING DATE: 2003-04-21
PRIOR APPLICATION NUMBER: 60/374,245
PRIOR FILING DATE: 2002-04-19
NUMBER OF SEQ ID NOS: 21
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 8
LENGTH: 98
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence:/Note =
US-10-511-814-8
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```
Query Match      100.0%; Score 42; DB 8; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.31;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy      1 LLMGTLGIV 9
      |||||
Db      82 LLMGTLGIV 90
```

```
RESULT 5
US-10-511-814-11
Sequence 11, Application US/10511814
Publication No. US20060088472A1
GENERAL INFORMATION:
APPLICANT: Westbrook, III, Thomas F.
TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
FILE REFERENCE: 21108.0016U2
CURRENT APPLICATION NUMBER: US/10/511.814
CURRENT FILING DATE: 2004-10-19
PRIOR APPLICATION NUMBER: PCT/US03/12867
PRIOR FILING DATE: 2003-04-21
PRIOR APPLICATION NUMBER: 60/374,245
PRIOR FILING DATE: 2002-04-19
NUMBER OF SEQ ID NOS: 21
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 11
LENGTH: 98
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence:/Note =
US-10-511-814-11
```

```
Query Match      100.0%; Score 42; DB 8; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.31;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 LLMGTLGIV 9
      |||||
Db      82 LLMGTLGIV 90
```

```
RESULT 6
US-10-530-253-14
Sequence 14, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Casaretti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
```

```
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530.253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO: 14
LENGTH: 98
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-530-253-14
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```
Query Match      100.0%; Score 42; DB 9; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.31;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 LLMGTLGIV 9
      |||||
Db      82 LLMGTLGIV 90
```

```
RESULT 7
US-11-179-478-4
Sequence 4, Application US/11179478
Publication No. US20050249745A1
GENERAL INFORMATION:
APPLICANT: BURGER, Alexander
APPLICANT: HALLER, Michael
TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
TITLE OF INVENTION: FORMULATIONS AND METHODS OF USE
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY & LARNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/11/179,478
FILING DATE: 13-JULY-2005
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/10/654,129
FILING DATE: 04-Sep-2003
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Sandercok, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-11-179-478-4
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Query Match      100.0%; Score 42; DB 11; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.31;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 LLMGTGIV 9
| | | | |
Db 82 LLMGTGIV 90

RESULT 8
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-1

Query Match 100.0%; Score 42; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.84;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTGIV 9
| | | | |
Db 232 LLMGTGIV 240

RESULT 9
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-3

Query Match 100.0%; Score 42; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.84;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTGIV 9
| | | | |
Db 232 LLMGTGIV 240

RESULT 10
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-5

Query Match 100.0%; Score 42; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.84;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTGIV 9
| | | | |
Db 232 LLMGTGIV 240

RESULT 11
US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-7

Query Match 100.0%; Score 42; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.84;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTGIV 9
| | | | |
Db 82 LLMGTGIV 90

RESULT 12
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1

```

; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530.253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
; US-10-530-253-9

Query Match          100.0%; Score 42; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.84;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTLGIV 9
   |||||
Db 82 LLMGTLGIV 90

RESULT 13
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530.253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
; US-10-530-253-11

Query Match          100.0%; Score 42; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.84;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTLGIV 9
   |||||
Db 82 LLMGTLGIV 90

RESULT 14
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
; APPLICANT: PANG, XIOMU
; TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
; FILE REFERENCE: 116620-003
```

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; CURRENT APPLICATION NUMBER: US/11/192,923A
; CURRENT FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: CN 03115272.4
; PRIOR FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: CN 03115273.2
; PRIOR FILING DATE: 2003-01-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Human papillomavirus
; US-11-192-923A-2

Query Match          100.0%; Score 42; DB 11; Length 256;
Best Local Similarity 100.0%; Pred. No. 0.87;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLMGTLGIV 9
   |||||
Db 82 LLMGTLGIV 90

RESULT 15
US-10-530-253-30
; Sequence 30, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530.253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 30
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Human papillomavirus type 35
; US-10-530-253-30

Query Match          90.5%; Score 38; DB 9; Length 99;
Best Local Similarity 88.9%; Pred. No. 1.8;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LLMGTLGIV 9
   |||||
Db 83 LLMGTLGIV 91

RESULT 16
US-10-530-061-1722
; Sequence 1722, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530.061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
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; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1722
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1722
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Query Match      81.0%; Score 34; DB 9; Length 15;
Best Local Similarity 77.8%; Pred. No. 1.4;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
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```
QY      1 LLMGTGLGIV 9
        ||||: |||
Db      7 LMGSGFQIV 15
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```
RESULT 17
US-10-530-061-1723
; Sequence 1723, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/W-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR FILING DATE: 2002-10-08
; PRIOR APPLICATION NUMBER: 60/417,269
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1723
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1723
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```
Query Match      81.0%; Score 34; DB 9; Length 15;
Best Local Similarity 77.8%; Pred. No. 1.4;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
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```
QY      1 LLMGTGLGIV 9
        ||||: |||
Db      2 LMGSGFQIV 10
```

```
RESULT 18
US-10-530-253-28
; Sequence 28, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
```

```
; SEQ ID NO 28
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type 31
US-10-530-253-28
```

```
Query Match      81.0%; Score 34; DB 9; Length 98;
Best Local Similarity 77.8%; Pred. No. 11;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 LLMGTGLGIV 9
        ||||: |||
Db      82 LMGSGFQIV 90
```

```
RESULT 19
US-10-530-061-1725
; Sequence 1725, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/W-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1725
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1725
```

```
Query Match      78.6%; Score 33; DB 9; Length 15;
Best Local Similarity 77.8%; Pred. No. 2.2;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 LLMGTGLGIV 9
        ||||: |||
Db      7 LLMGTGNIV 15
```

```
RESULT 20
US-10-530-061-1726
; Sequence 1726, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/W-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1726
; LENGTH: 15
; TYPE: PRT
```

ORGANISM: Human papillomavirus
US-10-530-061-1726

Query Match 78.6%; Score 33; DB 9; Length 15;
Best Local Similarity 77.8%; Pred. No. 2.2;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LLMGTGIV 9
|||:|
Db 4 LLMGTNIV 12

RESULT 21
US-10-530-061-1727
; Sequence 1727, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1727
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1727

Query Match 78.6%; Score 33; DB 9; Length 15;
Best Local Similarity 77.8%; Pred. No. 2.2;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LLMGTGIV 9
|||:|
Db 2 LLMGTNIV 10

RESULT 22
US-10-530-253-29
; Sequence 29, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100A137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 29
; LENGTH: 97
; TYPE: PRT
; ORGANISM: Human papillomavirus type 33
US-10-530-253-29

Query Match 78.6%; Score 33; DB 9; Length 97;

Best Local Similarity 77.8%; Pred. No. 16;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LLMGTGIV 9
|||:|
Db 82 LLMGTNIV 90

RESULT 23
US-11-106-399-10
; Sequence 10, Application US/11106399
; Publication No. US20060002892A1
; GENERAL INFORMATION:
; APPLICANT: MATHEW, FORUNELLOR A.
; APPLICANT: BOLES, KENT S.
; TITLE OF INVENTION: LLT USES THEREOF IN IMMUNE SYSTEM MODULATION
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/11/106,399
; PRIOR FILING DATE: 2005-04-14
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 179
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-106-399-10

Query Match 78.6%; Score 33; DB 11; Length 179;
Best Local Similarity 66.7%; Pred. No. 31;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LLMGTGIV 9
|||:|
Db 11 LLSGTLGI 19

RESULT 24
US-11-087-099-7391
; Sequence 7391, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; PRIOR FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 7391
; LENGTH: 169
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(169)
; OTHER INFORMATION: unsure at all Xaa locations
US-11-087-099-7391

Query Match 76.2%; Score 32; DB 11; Length 169;
Best Local Similarity 77.8%; Pred. No. 46;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LLMGTGIV 9
|||:|
Db 149 LLMGSLGSV 157

RESULT 25
US-11-188-298-9309
; Sequence 9309, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
US-11-188-298-9309

Query Match 78.6%; Score 33; DB 9; Length 97;

FILE REFERENCE: 38-21(53452)B
CURRENT APPLICATION NUMBER: US/11/188,298
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 9309
LENGTH: 313
TYPE: PRT
ORGANISM: *Synechococcus* sp. WH 8103
US-11-188-298-9309

Query Match 76.2%; Score 32; DB 11; Length 313;
Best Local Similarity 87.5%; Pred. No. 89;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LLMGTGIV 8
Db 40 LLMGQLGI 47

RESULT 26
US-11-203-251A-101
Sequence 101, Application US/11203251A
Publication No. US2006003904A1
GENERAL INFORMATION:
APPLICANT: Medimmune Inc.
TITLE OF INVENTION: EPH RECEPTOR FC VARIANTS WITH ENHANCED ANTIBODY DEPENDENT
TITLE OF INVENTION: CELL-MEDIATED CYTOTOXICITY ACTIVITY
FILE REFERENCE: AE702US
CURRENT APPLICATION NUMBER: US/11/203,251A
CURRENT FILING DATE: 2005-08-15
PRIOR APPLICATION NUMBER: 60/601,634
PRIOR FILING DATE: 2004-08-16
PRIOR APPLICATION NUMBER: 60/608,852
PRIOR FILING DATE: 2004-09-13
NUMBER OF SEQ ID NOS: 101
SOFTWARE: PatentIn version 3.3
SEQ ID NO 101
LENGTH: 340
TYPE: PRT
ORGANISM: *Homo sapiens*
US-11-203-251A-101

Query Match 76.2%; Score 32; DB 11; Length 340;
Best Local Similarity 66.7%; Pred. No. 98;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LLMGTGIV 9
Db 17 LLLGVGLIV 25

RESULT 27
US-11-188-298-7288
Sequence 7288, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53452)B
CURRENT APPLICATION NUMBER: US/11/188,298
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 7288
LENGTH: 417
TYPE: PRT
ORGANISM: *Coxiella burnetii* RSA 493
US-11-188-298-7288

Query Match 76.2%; Score 32; DB 11; Length 417;

Best Local Similarity 66.7%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LLMGTGIV 9
Db 305 MLGALGIV 313

RESULT 28
US-11-188-298-1021
Sequence 1021, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53452)B
CURRENT APPLICATION NUMBER: US/11/188,298
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 1021
LENGTH: 473
TYPE: PRT
ORGANISM: *Prochlorococcus marinus* str. MIT 9313
US-11-188-298-1021

Query Match 76.2%; Score 32; DB 11; Length 473;
Best Local Similarity 87.5%; Pred. No. 1.4e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LLMGTGIV 8
Db 200 LLMGQLGI 207

RESULT 29
US-11-188-298-4129
Sequence 4129, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53452)B
CURRENT APPLICATION NUMBER: US/11/188,298
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 4129
LENGTH: 473
TYPE: PRT
ORGANISM: *SYNECHOCOCCUS* SP. WH 8102
US-11-188-298-4129

Query Match 76.2%; Score 32; DB 11; Length 473;
Best Local Similarity 87.5%; Pred. No. 1.4e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LLMGTGIV 8
Db 200 LLMGQLGI 207

RESULT 30
US-11-045-004-854
Sequence 854, Application US/11045004
Publication No. US20060078901A1
GENERAL INFORMATION:
APPLICANT: BUCHRIEGER, CARMEN
APPLICANT: FRANGEUL, LIONEL
APPLICANT: COUVE, ELISABETH
APPLICANT: RUSNIOK, CHRISTOPHE

```
APPLICANT: FSIHI, HARIDA
APPLICANT: DEHOUX, PIERRE
APPLICANT: DUSSENET, OLIVIER
APPLICANT: CHETOUANI, FARID
APPLICANT: NEDJARI, HAFED
APPLICANT: GLASER, PHILIPPE
APPLICANT: KUNST, FRANK
APPLICANT: COSSART, PASCALE
APPLICANT: DANIELS, JUSTIN
APPLICANT: GOEBEL, WERNER
APPLICANT: KREFT, JURGEN
APPLICANT: KUNH, MICHAEL
APPLICANT: NG, EVA
APPLICANT: VAZQUEZ-BOLAND, ANTONIO
APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
APPLICANT: GARRIDO-GARCIA, PATRICIA
APPLICANT: TERRERZ-MARTINEZ, ALBERTO
APPLICANT: AMEND, ALEXANDRA
APPLICANT: CHAKRABORTY, TRINAD
APPLICANT: DOMANN, EUGEN
APPLICANT: HAIN, THORSTEN
APPLICANT: BERCHE, PATRICK
APPLICANT: CHARBIT, ALAIN
APPLICANT: DURANT, LIONEL
APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
APPLICANT: BAQUERO, FERNANDO
APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
APPLICANT: GOMEZ-LOPEZ, NURIA
APPLICANT: MADUENIO, ENCARN
APPLICANT: PABLOS, BETRIZ DE
APPLICANT: MEHLAND, JURGEN
APPLICANT: KARST, UWE
APPLICANT: ENTIAN, KARL-DIETER
APPLICANT: HAUP, JORG
APPLICANT: ROSE, MATTHIAS
APPLICANT: VOSSE, HAMUT
APPLICANT: TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
FILE REFERENCE: 05394.0018-02
CURRENT APPLICATION NUMBER: US/11/045,004
CURRENT FILING DATE: 2005-01-28
PRIOR APPLICATION NUMBER: 10/637,657
PRIOR FILING DATE: 2003-08-11
PRIOR APPLICATION NUMBER: 10/257,023
PRIOR FILING DATE: 2002-10-08
PRIOR APPLICATION NUMBER: PCT/FR01/01118
PRIOR FILING DATE: 2001-04-11
PRIOR APPLICATION NUMBER: FR 00/04,629
PRIOR FILING DATE: 2000-04-11
NUMBER OF SEQ ID NOS: 2854
SOFTWARE: PatentIn version 3.3
SEQ ID NO 854
LENGTH: 482
TYPE: PRT
ORGANISM: Listeria monocytogenes
US-11-045-004-854

Query Match
Best Local Similarity 76.2%; Score 32; DB 11; Length 482;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1 LLMGTIGIV 9
||:|:|:|
Db 11 LLLGALGVI 19
```

```
RESULT 31
US-11-188-298-11785
Sequence 11785, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53452)B
```

```
CURRENT APPLICATION NUMBER: US/11/188,298
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 11785
LENGTH: 637
TYPE: PRT
ORGANISM: Agrobacterium tumefaciens str. C58
US-11-188-298-11785

Query Match
Best Local Similarity 76.2%; Score 32; DB 11; Length 637;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 LLMGTIGIV 9
||:|:|:|
Db 21 LLLGSIGIV 29
```

```
RESULT 32
US-11-188-298-10117
Sequence 10117, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53452)B
CURRENT APPLICATION NUMBER: US/11/188,298
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 10117
LENGTH: 638
TYPE: PRT
ORGANISM: Agrobacterium tumefaciens str. C58
US-11-188-298-10117
```

```
Query Match
Best Local Similarity 76.2%; Score 32; DB 11; Length 638;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 LLMGTIGIV 9
||:|:|:|
Db 22 LLLGSIGIV 30
```

```
RESULT 33
US-11-188-298-13016
Sequence 13016, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53452)B
CURRENT APPLICATION NUMBER: US/11/188,298
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 13016
LENGTH: 197
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa UCBPP-PA14
US-11-188-298-13016
```

```
Query Match
Best Local Similarity 73.8%; Score 31; DB 11; Length 197;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1 LLMGTIGIV 9
||:|:|:|
```

Db 84 LILGAVCI 92

```
RESULT 34
US-11-045-004-2568
; Sequence 2568, Application US/11045004
; Publication No. US20060078901A1
; GENERAL INFORMATION:
; APPLICANT: BUCHRIESEN, CARMEN
; APPLICANT: FRANGEUL, LIONEL
; APPLICANT: COUVE, ELISABETH
; APPLICANT: RUSNIOK, CHRISTOPHE
; APPLICANT: FSIHI, HAFIDA
; APPLICANT: DEHOUX, PIERRE
; APPLICANT: DUSOURGET, OLIVIER
; APPLICANT: CHETOUANI, FARID
; APPLICANT: NEDJARI, HAFED
; APPLICANT: GLASER, PHILIPPE
; APPLICANT: KUNST, FRANCK
; APPLICANT: COSSART, PASCALE
; APPLICANT: DANIELS, JUSTIN
; APPLICANT: GOEBEL, WERNER
; APPLICANT: KREFT, JURGEN
; APPLICANT: KUHN, MICHAEL
; APPLICANT: NG, EVA
; APPLICANT: VAZQUEZ-BOLAND, ANTONIO
; APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
; APPLICANT: GARRIDO-GARCIA, PATRICIA
; APPLICANT: TIERREZ-MARTINEZ, ALBERTO
; APPLICANT: AMEND, ALEXANDRA
; APPLICANT: CHAKRABORTY, TRINAD
; APPLICANT: DOMANN, EUGEN
; APPLICANT: HAIN, THORSTEN
; APPLICANT: BERCHE, PATRICK
; APPLICANT: CHARBIT, ALAIN
; APPLICANT: DURANT, LIONEL
; APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
; APPLICANT: BAQUERO, FERNANDO
; APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
; APPLICANT: GOMEZ-LOPEZ, NURIA
; APPLICANT: MADUENIO, ENCARNIA
; APPLICANT: PABLOS, BETRIZ DE
; APPLICANT: WEHLAND, JURGEN
; APPLICANT: KARST, UWE
; APPLICANT: ENTIAN, KARL-DIETER
; APPLICANT: HAUF, JORG
; APPLICANT: ROSE, MATTHIAS
; APPLICANT: VOSS, HAMUT
; APPLICANT: TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
; FILE REFERENCE: 05394.0018-02
; CURRENT APPLICATION NUMBER: US/11/045,004
; PRIOR FILING DATE: 2005-01-28
; PRIOR APPLICATION NUMBER: 10/637,657
; PRIOR FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: 10/257,023
; PRIOR FILING DATE: 2002-10-08
; PRIOR APPLICATION NUMBER: PCT/FR01/01118
; PRIOR FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: FR 00/04,629
; PRIOR FILING DATE: 2000-04-11
; NUMBER OF SEQ ID NOS: 2854
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 2568
; LENGTH: 253
; TYPE: PRT
; ORGANISM: Listeria monocytogenes
US-11-045-004-2568
```

```
Query Match 73.8%; Score 31; DB 11; Length 253;
Best Local Similarity 85.7%; Pred. No. 1.1e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

QY 1 LLMGTIG 7

Db 163 LILGTLG 169

```
RESULT 35
US-11-188-298-12413
; Sequence 12413, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 12413
; LENGTH: 327
; TYPE: PRT
; ORGANISM: Trichodesmium erythraeum IMS101
US-11-188-298-12413

Query Match 73.8%; Score 31; DB 11; Length 327;
Best Local Similarity 62.5%; Pred. No. 1.5e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

QY 1 LLMGTIGI 8
Db 137 LILGTLGL 144

```
RESULT 36
US-11-045-004-437
; Sequence 437, Application US/11045004
; Publication No. US20060078901A1
; GENERAL INFORMATION:
; APPLICANT: BUCHRIESEN, CARMEN
; APPLICANT: FRANGEUL, LIONEL
; APPLICANT: COUVE, ELISABETH
; APPLICANT: RUSNIOK, CHRISTOPHE
; APPLICANT: FSIHI, HAFIDA
; APPLICANT: DEHOUX, PIERRE
; APPLICANT: DUSOURGET, OLIVIER
; APPLICANT: CHETOUANI, FARID
; APPLICANT: NEDJARI, HAFED
; APPLICANT: GLASER, PHILIPPE
; APPLICANT: KUNST, FRANCK
; APPLICANT: COSSART, PASCALE
; APPLICANT: DANIELS, JUSTIN
; APPLICANT: GOEBEL, WERNER
; APPLICANT: KREFT, JURGEN
; APPLICANT: KUHN, MICHAEL
; APPLICANT: NG, EVA
; APPLICANT: VAZQUEZ-BOLAND, ANTONIO
; APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
; APPLICANT: GARRIDO-GARCIA, PATRICIA
; APPLICANT: TIERREZ-MARTINEZ, ALBERTO
; APPLICANT: AMEND, ALEXANDRA
; APPLICANT: CHAKRABORTY, TRINAD
; APPLICANT: DOMANN, EUGEN
; APPLICANT: HAIN, THORSTEN
; APPLICANT: BERCHE, PATRICK
; APPLICANT: CHARBIT, ALAIN
; APPLICANT: DURANT, LIONEL
; APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
; APPLICANT: BAQUERO, FERNANDO
; APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
; APPLICANT: GOMEZ-LOPEZ, NURIA
; APPLICANT: MADUENIO, ENCARNIA
; APPLICANT: PABLOS, BETRIZ DE
; APPLICANT: WEHLAND, JURGEN
; APPLICANT: KARST, UWE
```



```
APPLICANT: ENTIAN, KARL-DIETER
APPLICANT: HAUF, JORG
APPLICANT: ROSE, MATTHIAS
APPLICANT: VOSS, HAMUT
TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
FILE REFERENCE: 05394.0018-02
CURRENT FILING DATE: US/11/045.004
PRIOR APPLICATION NUMBER: 10/637,657
PRIOR FILING DATE: 2003-08-11
PRIOR APPLICATION NUMBER: 10/257,023
PRIOR FILING DATE: 2002-10-08
PRIOR APPLICATION NUMBER: PCT/FR01/01118
PRIOR FILING DATE: 2001-04-11
PRIOR APPLICATION NUMBER: FR 00/04,629
PRIOR FILING DATE: 2000-04-11
NUMBER OF SEQ ID NOS: 2854
SOFTWARE: PatentIn version 3.3
SEQ ID NO 437
LENGTH: 353
TYPE: PRT
ORGANISM: Listeria monocytogenes
US-11-045-004-437
```

```
Query Match 73.8%; Score 31; DB 11; Length 353;
Best Local Similarity 75.0%; Pred. No. 1.6e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 LLMGTLGI 8
Db 245 LLMGVSIGI 252
```

RESULT 37

```
US-11-072-512-2399
Sequence 2399, Application US/11072512
Publication No. US20060029945A1
GENERAL INFORMATION:
APPLICANT: ISOGAI, TAKAO
APPLICANT: SUGIYAMA, TOMOYASU
APPLICANT: OTSUKI, TETSUJI
APPLICANT: WAKAMATSU, AI
APPLICANT: SATO, HIROYUKI
APPLICANT: ISHII, SHIZUKO
APPLICANT: YAMAMOTO, JUN-ICHI
APPLICANT: ISONO, YUUKO
APPLICANT: HIO, YORI
APPLICANT: OTSUKA, KAORU
APPLICANT: NAGAI, KEIICHI
APPLICANT: IRIE, RYOTARO
APPLICANT: TAMECHIKA, ICHIRO
APPLICANT: SEKI, NAOHICO
APPLICANT: YOSHIKAWA, TSUTOMU
APPLICANT: OTSUKA, MOTYOYUKI
APPLICANT: NAGAHARI, KENJI
APPLICANT: MASUHO, YASUHIKO
TITLE OF INVENTION: Novel full length cDNA
FILE REFERENCE: 064335-0191
CURRENT FILING DATE: US/11/072,512
CURRENT FILING DATE: 2005-03-07
PRIOR APPLICATION NUMBER: US 60/350,978
PRIOR FILING DATE: 2002-01-25
PRIOR APPLICATION NUMBER: JP 2001-379298
PRIOR FILING DATE: 2001-11-05
NUMBER OF SEQ ID NOS: 4096
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2399
LENGTH: 413
TYPE: PRT
ORGANISM: Homo sapiens
US-11-072-512-2399
```

```
Query Match 73.8%; Score 31; DB 11; Length 413;
```

```
Best Local Similarity 75.0%; Pred. No. 1.9e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1 LLMGTLGI 8
Db 210 LLMGTLGV 217
```

```
RESULT 38
US-11-188-298-5239
Sequence 5239, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53452)B
CURRENT FILING DATE: US/11/188,298
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 5239
LENGTH: 422
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa PAO1
US-11-188-298-5239
```

```
Query Match 73.8%; Score 31; DB 11; Length 422;
Best Local Similarity 66.7%; Pred. No. 1.9e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1 LLMGTLGI 9
Db 309 LLMGAVGIV 317
```

```
RESULT 39
US-11-188-298-6306
Sequence 6306, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53452)B
CURRENT FILING DATE: US/11/188,298
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 6306
LENGTH: 625
TYPE: PRT
ORGANISM: Thermosynechococcus elongatus BP-1
US-11-188-298-6306
```

```
Query Match 73.8%; Score 31; DB 11; Length 625;
Best Local Similarity 55.6%; Pred. No. 2.9e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1 LLMGTLGI 9
Db 14 LLMGALGV 22
```

```
RESULT 40
US-10-530-061-1721
Sequence 1721, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
```

```
; FILE REFERENCE: 2060.033US02/EXS/M-M
; CURRENT APPLICATION NUMBER: US/10/530.061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 1721
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1721

Query Match          71.4%; Score 30; DB 9; Length 15;
Best Local Similarity 75.0%; Pred. No. 8.2;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LLMGTLGI 8
Db 8 LLMGSLGI 15

RESULT 41
US-10-530-253-40
; Sequence 40, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McShiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530.253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 40
; LENGTH: 104
; TYPE: PRT
; ORGANISM: Human papillomavirus
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(104)
; OTHER INFORMATION: where Xaa is any amino acid
US-10-530-253-40

Query Match          71.4%; Score 30; DB 9; Length 104;
Best Local Similarity 77.8%; Pred. No. 66;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 LLMGTLGI 9
Db 88 LLMGTLXV 96

RESULT 42
US-11-079-463-6262
; Sequence 6262, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FR
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: PATH00-03DIV2
```

```
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 6262
; LENGTH: 205
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-6262

Query Match          71.4%; Score 30; DB 11; Length 205;
Best Local Similarity 66.7%; Pred. No. 1.4e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LLMGTLGI 9
Db 28 LLMGKGLI 36

RESULT 43
US-10-506-454-1358
; Sequence 1358, Application US/10506454
; Publication No. US20060068386A1
; GENERAL INFORMATION:
; APPLICANT: Slesarev, Alexi I
; APPLICANT: Mezhevaya, Katja V
; APPLICANT: Poluehin, Nikolai N
; APPLICANT: Shcherbina, Olga V
; APPLICANT: Shakhova, Vera V
; APPLICANT: Mal'kh, Andrei G
; APPLICANT: Koz'yavkin, Sergei A
; TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophil
; TITLE OF INVENTION: Methanopyrus Kandleri AV19 and Monophyly of Archaeal Methanogens
; TITLE OF INVENTION: and Methods of Use Thereof
; FILE REFERENCE: FID001
; CURRENT APPLICATION NUMBER: US/10/506,454
; CURRENT FILING DATE: 2004-08-31
; PRIOR APPLICATION NUMBER: PCT/US03/06664
; PRIOR FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: 60/361,742
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1722
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 1358
; LENGTH: 242
; TYPE: PRT
; ORGANISM: Methanopyrus kandleri
US-10-506-454-1358

Query Match          71.4%; Score 30; DB 9; Length 242;
Best Local Similarity 66.7%; Pred. No. 1.6e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LLMGTLGI 9
Db 111 LLMGGLV 119

RESULT 44
US-11-188-298-11179
; Sequence 11179, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
```

```
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 11179
; LENGTH: 370
; TYPE: PRT
; ORGANISM: ASPERGILLUS NIDULANS FGSC A4
US-11-188-298-11179
```

```
Query Match          71.4%; Score 30; DB 11; Length 370;
Best Local Similarity 62.5%; Pred. No. 2.6e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      2 LMGTGIV 9
        |:||||:
Db       262 LVGTGIVL 269
```

```
RESULT 45
US-11-087-099-5578
; Sequence 5578, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 5578
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Aspergillus niger
US-11-087-099-5578
```

```
Query Match          71.4%; Score 30; DB 11; Length 371;
Best Local Similarity 62.5%; Pred. No. 2.6e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      2 LMGTGIV 9
        |:||||:
Db       263 LIGTIGVL 270
```

```
RESULT 46
US-11-188-298-16133
; Sequence 16133, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 16133
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Aspergillus niger
US-11-188-298-16133
```

```
Query Match          71.4%; Score 30; DB 11; Length 371;
Best Local Similarity 62.5%; Pred. No. 2.6e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      2 LMGTGIV 9
        |:||||:
Db       263 LIGTIGVL 270
```

```
RESULT 47
US-11-079-463-8893
; Sequence 8893, Application US/11079463
```

```
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FR
; FILE REFERENCE: PAT00-03DIY2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 8893
; LENGTH: 437
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-8893
```

```
Query Match          71.4%; Score 30; DB 11; Length 437;
Best Local Similarity 55.6%; Pred. No. 3.1e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 LMGTGIV 9
        |:||||:
Db       278 LVGTIGIT 286
```

```
RESULT 48
US-11-079-463-6055
; Sequence 6055, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FR
; FILE REFERENCE: PAT00-03DIY2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 6055
; LENGTH: 540
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-6055
```

```
Query Match          71.4%; Score 30; DB 11; Length 540;
Best Local Similarity 75.0%; Pred. No. 3.9e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 LMGTGIV 8
        |:||||:
Db       495 VLMGALGI 502
```

```
RESULT 49
US-11-188-298-17174
; Sequence 17174, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 17174
```

```
; LENGTH: 554
; TYPE: PRT
; ORGANISM: Bdellovibrio bacteriovorus
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(554)
; OTHER INFORMATION: unsure at all Xaa locations
US-11-188-298-17174
```

```
Query Match          71.4%; Score 30; DB 11; Length 554;
Best Local Similarity 55.6%; Pred. No. 4e+02; 1; Indels 0; Gaps 0;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 LLMGTLAGIV 9
         |::|||::|
Db       13 LILGTAGLV 21
```

```
RESULT 50
US-11-188-298-15243
; Sequence 15243, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; PRIOR FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 15243
; LENGTH: 651
; TYPE: PRT
; ORGANISM: Brucella melitensis 16M
US-11-188-298-15243
```

```
Query Match          71.4%; Score 30; DB 11; Length 651;
Best Local Similarity 55.6%; Pred. No. 4.8e+02; 1; Indels 0; Gaps 0;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 LLMGTLAGIV 9
         |::|||::|
Db       41 LVLGALGVV 49
```

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Search completed: May 5, 2006, 07:45:43
Job time : 20.4 secs
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GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 04:48:55 ; Search time 20.7 Seconds
(without alignments)
35.946 Million cell updates/sec

Title: US-08-170-344-19
Perfect score: 49
Sequence: 1 GTGIVCP1 9

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Issued Patents AA: *
1: /cgn2_6/ptodata/1/1aa/5_COMB.pep: *
2: /cgn2_6/ptodata/1/1aa/6_COMB.pep: *
3: /cgn2_6/ptodata/1/1aa/H_COMB.pep: *
4: /cgn2_6/ptodata/1/1aa/PCrus_COMB.pep: *
5: /cgn2_6/ptodata/1/1aa/RE_COMB.pep: *
6: /cgn2_6/ptodata/1/1aa/Backfiles.pep: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	49	100.0	9	2	US-09-169-425C-21
2	49	100.0	9	2	US-08-197-484-70
3	49	100.0	9	2	US-09-759-960-21
4	49	100.0	9	2	US-10-365-908-50
5	49	100.0	9	4	PCR-US95-02121-70
6	49	100.0	10	2	US-09-000-003A-9
7	49	100.0	10	2	US-09-405-986A-10
8	49	100.0	10	2	US-10-365-908-46
9	49	100.0	11	2	US-09-169-425C-31
10	49	100.0	11	2	US-09-169-425C-33
11	49	100.0	11	2	US-09-759-960-31
12	49	100.0	11	2	US-09-759-960-33
13	49	100.0	12	2	US-08-948-378A-16
14	49	100.0	12	2	US-09-169-425C-16
15	49	100.0	12	2	US-09-759-960-16
16	49	100.0	13	2	US-08-948-378A-3
17	49	100.0	13	2	US-08-948-378A-4
18	49	100.0	13	2	US-08-948-378A-19
19	49	100.0	13	2	US-08-159-339A-1167
20	49	100.0	13	2	US-09-169-425C-3
21	49	100.0	13	2	US-09-169-425C-4
22	49	100.0	13	2	US-09-169-425C-19
23	49	100.0	13	2	US-09-759-960-3
24	49	100.0	13	2	US-09-759-960-4
25	49	100.0	13	2	US-09-759-960-19
26	49	100.0	14	2	US-09-169-425C-32
27	49	100.0	14	2	US-09-759-960-32

28	49	100.0	15	2	US-08-159-339A-1168	Sequence 1168, Ap
29	49	100.0	16	2	US-09-169-425C-25	Sequence 25, Appl
30	49	100.0	16	2	US-09-759-960-25	Sequence 25, Appl
31	49	100.0	19	2	US-09-980-523A-18	Sequence 18, Appl
32	49	100.0	20	2	US-08-075-541D-50	Sequence 50, Appl
33	49	100.0	21	1	US-08-934-915-50	Sequence 50, Appl
34	49	100.0	21	1	US-08-980-177A-76	Sequence 157, Appl
35	49	100.0	21	2	US-08-075-541D-40	Sequence 40, Appl
36	49	100.0	26	2	US-08-406-248-6	Sequence 5, Appl
37	49	100.0	30	1	US-08-934-915-54	Sequence 54, Appl
38	49	100.0	38	2	US-08-948-178A-6	Sequence 6, Appl
39	49	100.0	38	2	US-09-169-425C-6	Sequence 6, Appl
40	49	100.0	38	2	US-09-759-960-6	Sequence 6, Appl
41	49	100.0	38	2	US-08-406-248-6	Sequence 6, Appl
42	49	100.0	98	1	US-08-075-541D-42	Sequence 42, Appl
43	49	100.0	98	2	US-09-382-616A-1	Sequence 1, Appl
44	49	100.0	98	2	US-08-944-368A-4	Sequence 4, Appl
45	49	100.0	98	2	US-09-820-764-4	Sequence 4, Appl
46	49	100.0	98	2	US-09-613-303-8	Sequence 8, Appl
47	49	100.0	98	2	US-09-366-420-19	Sequence 19, Appl
48	49	100.0	98	2	US-09-986-118A-4	Sequence 4, Appl
49	49	100.0	98	2	US-09-728-466-1	Sequence 1, Appl
50	49	100.0	98	2	US-09-824-017-4	Sequence 4, Appl
51	49	100.0	98	2	US-10-267-311-8	Sequence 8, Appl
52	49	100.0	98	2	US-10-201-764-19	Sequence 19, Appl
53	49	100.0	98	2	US-09-637-746-3	Sequence 3, Appl
54	49	100.0	98	2	US-09-501-097A-7	Sequence 7, Appl
55	49	100.0	98	2	US-09-980-523A-12	Sequence 12, Appl
56	49	100.0	121	2	US-10-267-311-12	Sequence 12, Appl
57	49	100.0	121	2	US-08-860-165-14	Sequence 14, Appl
58	49	100.0	172	2	US-09-359-382-14	Sequence 14, Appl
59	49	100.0	172	2	US-09-462-993-2	Sequence 2, Appl
60	49	100.0	185	2	US-09-613-303-35	Sequence 35, Appl
61	49	100.0	198	2	US-10-267-311-35	Sequence 35, Appl
62	49	100.0	220	2	US-09-485-885-1	Sequence 8, Appl
63	49	100.0	220	2	US-09-485-885-8	Sequence 8, Appl
64	49	100.0	220	2	US-09-485-885-12	Sequence 12, Appl
65	49	100.0	233	1	US-08-459-818-10	Sequence 20, Appl
66	49	100.0	253	1	US-08-889-666-20	Sequence 20, Appl
67	49	100.0	253	1	US-08-465-078-20	Sequence 20, Appl
68	49	100.0	253	1	US-08-725-776-20	Sequence 20, Appl
69	49	100.0	253	1	US-08-488-062-20	Sequence 20, Appl
70	49	100.0	253	1	US-08-117-083-9	Sequence 9, Appl
71	49	100.0	263	1	US-08-860-165-10	Sequence 10, Appl
72	49	100.0	266	2	US-09-359-382-10	Sequence 10, Appl
73	49	100.0	266	2	US-09-367-309A-1	Sequence 1, Appl
74	49	100.0	266	2	US-09-501-097A-25	Sequence 25, Appl
75	49	100.0	287	2	US-09-613-303-33	Sequence 33, Appl
76	49	100.0	295	2	US-10-267-311-33	Sequence 33, Appl
77	49	100.0	324	2	US-09-613-303-25	Sequence 25, Appl
78	49	100.0	324	2	US-10-267-311-25	Sequence 25, Appl
79	49	100.0	324	2	US-09-485-885-6	Sequence 6, Appl
80	49	100.0	371	2	US-09-485-885-12	Sequence 12, Appl
81	49	100.0	390	2	US-09-613-303-19	Sequence 19, Appl
82	49	100.0	420	2	US-10-267-311-19	Sequence 19, Appl
83	49	100.0	493	2	US-09-613-303-53	Sequence 53, Appl
84	49	100.0	647	2	US-10-267-311-53	Sequence 53, Appl
85	49	100.0	647	2	US-09-613-303-29	Sequence 29, Appl
86	49	100.0	648	2	US-10-267-311-29	Sequence 29, Appl
87	49	100.0	648	2	US-09-613-303-41	Sequence 41, Appl
88	49	100.0	711	2	US-10-267-311-41	Sequence 41, Appl
89	49	100.0	723	2	US-09-501-097A-20	Sequence 20, Appl
90	49	100.0	724	2	US-09-613-303-45	Sequence 45, Appl
91	49	100.0	724	2	US-10-267-311-45	Sequence 45, Appl
92	49	100.0	724	2	US-08-787-547-107	Sequence 107, Appl
93	49	100.0	8	1	US-09-169-425C-20	Sequence 20, Appl
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101	43	87.8	8	2	US-08-704-344-21	Sequence 21, Appl	174	33.5	68.4	589	2	US-09-740-041-2	Sequence 2, Appl1
102	43	87.8	8	2	US-09-759-960-20	Sequence 20, Appl	175	33.5	68.4	850	2	US-09-915-181A-3	Sequence 3, Appl1
103	43	87.8	8	2	US-09-601-729-272	Sequence 272, App	176	33	67.3	159	2	US-09-270-767-45321	Sequence 45321, A
104	43	87.8	9	2	US-08-948-378A-2	Sequence 2, Appl1	177	33	67.3	370	2	US-09-134-000C-4746	Sequence 4746, Ap
105	43	87.8	9	2	US-09-169-425C-2	Sequence 2, Appl1	178	33	67.3	409	2	US-09-949-016-11141	Sequence 11141, A
106	43	87.8	9	2	US-09-169-425C-27	Sequence 27, Appl	179	33	67.3	412	2	US-09-285-055-2	Sequence 2, Appl1
107	43	87.8	9	2	US-08-197-484-68	Sequence 68, Appl	180	33	67.3	412	2	US-09-407-062-7	Sequence 7, Appl1
108	43	87.8	9	2	US-09-759-960-2	Sequence 2, Appl1	181	33	67.3	412	2	US-09-950-772-6	Sequence 6, Appl1
109	43	87.8	9	2	US-09-759-960-27	Sequence 27, Appl	182	33	67.3	412	2	US-10-045-063A-2	Sequence 2, Appl1
110	43	87.8	9	2	US-10-365-908-103	Sequence 103, App	183	33	67.3	418	2	US-09-107-532A-6073	Sequence 6073, Ap
111	43	87.8	9	4	PCT-US95-02121-68	Sequence 68, Appl	184	33	67.3	463	2	US-08-792-295-1	Sequence 1, Appl1
112	43	87.8	10	2	US-10-365-908-99	Sequence 99, Appl	185	33	67.3	463	2	US-09-076-432-1	Sequence 3579, Ap
113	43	87.8	36	2	US-09-000-094-30	Sequence 30, Appl	186	33	67.3	463	2	US-09-134-001C-3579	Sequence 2, Appl1
114	43	87.8	36	2	US-10-011-749-30	Sequence 30, Appl	187	33	67.3	802	2	US-09-634-955B-2	Sequence 2, Appl1
115	43	87.8	59	2	US-09-350-027-6	Sequence 6, Appl1	188	33	67.3	802	2	US-09-816-760-2	Sequence 2, Appl1
116	43	87.8	375	2	US-09-000-094-22	Sequence 22, Appl	189	33	67.3	802	2	US-09-838-561-2	Sequence 2, Appl1
117	43	87.8	375	2	US-10-011-749-22	Sequence 22, Appl	190	33	67.3	1014	2	US-09-344-510B-3	Sequence 3, Appl1
118	43	87.8	465	2	US-09-000-094-24	Sequence 24, Appl	191	33	67.3	1075	2	US-09-252-991A-18387	Sequence 18387, A
119	43	87.8	465	2	US-10-011-749-24	Sequence 24, Appl	192	32	65.3	9	2	US-10-365-908-74	Sequence 74, Appl
120	43	87.8	601	1	US-08-606-288-7	Sequence 7, Appl1	193	32	65.3	9	2	US-10-365-908-81	Sequence 81, Appl
121	43	87.8	601	1	US-08-606-288-10	Sequence 10, Appl	194	32	65.3	101	2	US-09-270-767-39735	Sequence 39735, A
122	43	87.8	601	2	US-09-347-483-7	Sequence 7, Appl1	195	32	65.3	101	2	US-09-270-767-54952	Sequence 54952, A
123	43	87.8	601	2	US-09-347-483-10	Sequence 10, Appl	196	32	65.3	128	2	US-09-134-000C-5387	Sequence 5387, Ap
124	43	87.8	1587	2	US-09-000-094-46	Sequence 46, Appl	197	32	65.3	133	2	US-09-270-767-44213	Sequence 44213, A
125	43	87.8	1587	2	US-10-011-749-46	Sequence 46, Appl	198	32	65.3	133	2	US-09-270-767-59636	Sequence 59636, A
126	39	79.6	78	2	US-09-134-001C-3871	Sequence 3871, Ap	199	32	65.3	160	2	US-09-328-352-5681	Sequence 5681, Ap
127	38	77.6	1	2	US-10-365-908-21	Sequence 21, Appl	200	32	65.3	196	2	US-09-270-767-33887	Sequence 33887, A
128	38	77.6	1	2	US-09-169-425C-28	Sequence 28, Appl	201	32	65.3	196	2	US-10-147-874-8	Sequence 8, Appl1
129	38	77.6	11	2	US-09-759-960-28	Sequence 28, Appl	202	32	65.3	205	2	US-09-270-767-44356	Sequence 44356, A
130	38	77.6	79	2	US-09-198-452A-1251	Sequence 1251, Ap	203	32	65.3	215	2	US-08-690-095-7	Sequence 7, Appl1
131	38	77.6	188	2	US-09-438-185A-1054	Sequence 1054, Ap	204	32	65.3	215	2	US-09-113-789-7	Sequence 16, Appl
132	38	77.6	1139	1	US-08-537-210A-4	Sequence 4, Appl1	205	32	65.3	215	2	US-08-543-246B-15	Sequence 22, Appl
133	38	77.6	1139	2	US-09-113-825-4	Sequence 4, Appl1	206	32	65.3	215	2	US-08-543-246B-22	Sequence 22, Appl
134	38	77.6	2703	1	US-08-185-432-19	Sequence 19, Appl	207	32	65.3	231	2	US-09-949-016-8815	Sequence 8815, Ap
135	38	77.6	2703	2	US-08-899-232-4	Sequence 4, Appl1	208	32	65.3	231	2	US-09-949-016-8816	Sequence 8816, Ap
136	38	77.6	2703	2	US-09-121-457-4	Sequence 9, Appl1	209	32	65.3	233	1	US-08-690-095-8	Sequence 8, Appl1
137	37	75.5	179	1	US-08-650-578-2	Sequence 2, Appl1	210	32	65.3	233	2	US-09-113-789-8	Sequence 8, Appl1
138	37	75.5	179	1	US-08-650-578-2	Sequence 2, Appl1	211	32	65.3	233	2	US-08-543-246B-21	Sequence 21, Appl
139	37	75.5	179	1	US-08-688-342-3	Sequence 3, Appl1	212	32	65.3	233	2	US-08-543-246B-22	Sequence 22, Appl
140	37	75.5	179	1	US-09-113-788-3	Sequence 3, Appl1	213	32	65.3	249	2	US-09-949-016-11591	Sequence 11591, A
141	37	75.5	179	2	US-09-113-789-9	Sequence 9, Appl1	214	32	65.3	249	2	US-09-949-016-11592	Sequence 11592, A
142	37	75.5	179	2	US-09-919-039-130	Sequence 130, App	215	32	65.3	254	2	US-09-372-422A-34	Sequence 34, Appl
143	37	75.5	179	2	US-09-949-016-6200	Sequence 6200, Ap	216	32	65.3	274	2	US-09-489-039A-7855	Sequence 7855, Ap
144	37	75.5	418	2	US-09-248-796A-20076	Sequence 20076, A	217	32	65.3	303	2	US-09-303-518D-680	Sequence 680, App
145	37	75.5	418	2	US-09-711-164-412	Sequence 412, App	218	32	65.3	308	2	US-09-949-016-9880	Sequence 9880, App
146	37	75.5	465	2	US-09-915-181A-8	Sequence 8, Appl1	219	32	65.3	312	2	US-09-515-806-18	Sequence 18, Appl
147	37	75.5	2321	2	US-09-230-652-2	Sequence 26, Appl	220	32	65.3	415	2	US-09-949-016-9946	Sequence 9946, Ap
148	36	73.5	8	2	US-09-169-425C-26	Sequence 26, Appl	221	32	65.3	415	2	US-09-949-016-9947	Sequence 9947, Ap
149	36	73.5	8	2	US-09-759-960-26	Sequence 26, Appl	222	32	65.3	415	2	US-09-949-016-9948	Sequence 9948, Ap
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151	35.5	72.4	560	1	US-08-647-484-2	Sequence 2, Appl1	224	32	65.3	440	2	US-09-538-092-446	Sequence 446, App
152	35.5	72.4	560	1	US-08-647-484-2	Sequence 2, Appl1	225	32	65.3	440	2	US-09-902-540-10011	Sequence 10011, A
153	35.5	72.4	560	1	US-08-430-033A-2	Sequence 2, Appl1	226	32	65.3	446	1	US-08-833-610-5	Sequence 5, Appl1
154	35.5	72.4	560	1	US-08-805-118-4	Sequence 4, Appl1	227	32	65.3	446	1	US-08-834-033A-15	Sequence 15, Appl1
155	35.5	72.4	560	2	US-09-391-958-4	Sequence 4, Appl1	228	32	65.3	446	2	US-09-377-452-5	Sequence 5, Appl1
156	35.5	72.4	560	2	US-09-915-181A-5	Sequence 5, Appl1	229	32	65.3	447	2	US-09-555-093-7	Sequence 7, Appl1
157	35.5	72.4	560	4	PCT-US96-05792-2	Sequence 2, Appl1	230	32	65.3	448	1	US-08-366-779-5	Sequence 5, Appl1
158	35.5	72.4	567	2	US-09-949-016-11354	Sequence 11354, A	231	32	65.3	448	1	US-08-789-936-5	Sequence 5, Appl1
159	35.5	72.4	578	2	US-09-740-041-4	Sequence 4, Appl1	232	32	65.3	448	2	US-08-934-254-5	Sequence 5, Appl1
160	35.5	72.4	582	2	US-09-915-181A-4	Sequence 4, Appl1	233	32	65.3	448	2	US-09-685-775-5	Sequence 5, Appl1
161	35	71.4	162	2	US-09-605-703B-2168	Sequence 2168, Ap	234	32	65.3	448	2	US-09-857-581B-15	Sequence 15, Appl
162	35	71.4	162	2	US-09-248-796A-19741	Sequence 19741, A	235	32	65.3	448	2	US-09-857-524B-11	Sequence 11, Appl
163	35	71.4	718	2	US-09-252-991A-25683	Sequence 25683, A	236	32	65.3	452	2	US-08-934-254-27	Sequence 27, Appl
164	34	69.4	10	2	US-08-159-339A-572	Sequence 12, Appl	237	32	65.3	452	2	US-09-685-775-5	Sequence 5, Appl1
165	34	69.4	115	2	US-10-365-908-12	Sequence 44748, A	238	32	65.3	458	2	US-09-568-470A-1	Sequence 1, Appl1
166	34	69.4	115	2	US-09-270-767-44748	Sequence 15981, A	239	32	65.3	502	2	US-09-252-991A-23327	Sequence 23327, A
167	34	69.4	170	2	US-09-902-540-15981	Sequence 7574, Ap	240	32	65.3	506	2	US-09-303-518D-692	Sequence 692, App
168	34	69.4	435	2	US-09-489-039A-7574	Sequence 9822, Ap	241	32	65.3	506	2	US-09-303-518D-684	Sequence 684, App
169	34	69.4	435	2	US-09-489-039A-9822	Sequence 24, Appl	242	32	65.3	506	2	US-09-303-518D-686	Sequence 686, App
170	34	69.4	471	2	US-09-538-092-24	Sequence 11950, A	243	32	65.3	640	2	US-09-657-252-4	Sequence 2, Appl1
171	34	69.4	471	2	US-09-902-540-11950	Sequence 6, Appl1	244	32	65.3	640	2	US-09-592-595A-4	Sequence 4, Appl1
172	34	69.4	559	1	US-08-030-096-6	Sequence 10672, A	245	32	65.3	656	2	US-08-738-000-4	Sequence 4, Appl1
173	34	69.4	570	2	US-09-949-016-10672	Sequence 10672, A	246	32	65.3	656	2	US-08-738-000-4	Sequence 4, Appl1

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249	32	65.3	656	2	US-09-660-872A-4	Sequence 4, Appli	322	30	61.2	13	2	US-08-974-297-34	Sequence 33, Appli
250	32	65.3	656	2	US-09-931-795-4	Sequence 4, Appli	323	30	61.2	13	2	US-08-974-297-53	Sequence 34, Appli
251	32	65.3	659	2	US-09-710-279-1596	Sequence 1596, Ap	324	30	61.2	13	2	US-08-974-297-55	Sequence 35, Appli
252	32	65.3	660	2	US-08-738-000-2	Sequence 2, Appli	325	30	61.2	13	2	US-09-258-974-174	Sequence 174, App
253	32	65.3	660	2	US-09-258-928-2	Sequence 2, Appli	326	30	61.2	13	2	US-09-258-974-183	Sequence 183, App
254	32	65.3	660	2	US-09-660-872A-2	Sequence 2, Appli	327	30	61.2	13	2	US-08-660-092-61	Sequence 61, App
255	32	65.3	660	2	US-09-931-795-2	Sequence 2, Appli	328	30	61.2	13	2	US-09-042-107-174	Sequence 174, App
256	32	65.3	690	2	US-09-134-001C-4938	Sequence 4938, Ap	329	30	61.2	13	2	US-09-042-107-183	Sequence 183, App
257	32	65.3	769	2	US-08-434-000A-10	Sequence 10, Appli	330	30	61.2	13	2	US-09-160-513-61	Sequence 61, Appli
258	32	65.3	769	2	US-09-312-157-10	Sequence 10, Appli	331	30	61.2	13	2	US-09-722-250D-174	Sequence 174, App
259	32	65.3	769	2	US-09-717-888-10	Sequence 10, Appli	332	30	61.2	13	2	US-09-722-250D-183	Sequence 183, App
260	32	65.3	769	2	US-09-818-247-3	Sequence 3, Appli	333	30	61.2	13	2	US-09-676-475A-174	Sequence 174, App
261	32	65.3	1014	2	US-09-252-991A-29868	Sequence 29868, A	334	30	61.2	13	2	US-08-748-021-53	Sequence 53, Appli
262	32	65.3	2710	1	US-08-568-459A-12	Sequence 12, Appli	335	30	61.2	13	2	US-10-607-595-174	Sequence 174, App
263	32	65.3	2710	1	US-08-487-826B-12	Sequence 12, Appli	336	30	61.2	13	2	US-10-607-595-183	Sequence 183, App
264	32	65.3	2710	2	US-09-210-288-12	Sequence 12, Appli	337	30	61.2	14	1	US-08-748-021-27	Sequence 27, Appli
265	32	65.3	2710	2	US-10-153-273-12	Sequence 12, Appli	338	30	61.2	14	1	US-08-748-021-28	Sequence 28, Appli
266	32	65.3	3060	1	US-08-487-826B-14	Sequence 14, Appli	339	30	61.2	14	1	US-08-748-021-29	Sequence 29, Appli
267	31	63.3	13	1	US-08-232-453A-59	Sequence 59, Appli	340	30	61.2	14	1	US-08-974-297-53	Sequence 53, Appli
268	31	63.3	103	2	US-09-489-039A-12542	Sequence 12542, A	342	30	61.2	14	2	US-08-974-297-27	Sequence 27, Appli
269	31	63.3	129	2	US-09-543-681A-8076	Sequence 8076, Ap	343	30	61.2	14	2	US-08-974-297-28	Sequence 28, Appli
270	31	63.3	139	2	US-09-328-352-7541	Sequence 7541, Ap	344	30	61.2	14	2	US-08-974-297-29	Sequence 29, Appli
271	31	63.3	154	2	US-09-489-039A-13313	Sequence 13313, A	345	30	61.2	14	2	US-08-974-297-31	Sequence 31, Appli
272	31	63.3	185	2	US-09-270-767-39023	Sequence 39023, A	346	30	61.2	14	2	US-08-974-297-53	Sequence 53, Appli
273	31	63.3	185	2	US-09-270-767-54240	Sequence 54240, A	347	30	61.2	14	2	US-08-974-297-53	Sequence 53, Appli
274	31	63.3	191	1	US-08-469-412A-4	Sequence 4, Appli	348	30	61.2	14	2	US-08-660-092-57	Sequence 57, Appli
275	31	63.3	191	1	US-09-021-715-4	Sequence 4, Appli	349	30	61.2	14	2	US-08-660-092-57	Sequence 57, Appli
276	31	63.3	200	2	US-09-270-767-42543	Sequence 42543, A	350	30	61.2	14	2	US-08-660-092-60	Sequence 60, Appli
277	31	63.3	320	2	US-10-104-047-2641	Sequence 2641, Ap	351	30	61.2	14	2	US-09-160-513-60	Sequence 60, Appli
278	31	63.3	352	2	US-09-489-039A-9426	Sequence 9426, Ap	352	30	61.2	14	2	US-08-318-794-29	Sequence 29, Appli
279	31	63.3	358	2	US-09-489-039A-8685	Sequence 8685, Ap	353	30	61.2	27	2	US-08-470-106-29	Sequence 87, Appli
280	31	63.3	360	2	US-09-116-498-10	Sequence 10, Appli	354	30	61.2	27	2	US-08-118-270-87	Sequence 87, Appli
281	31	63.3	360	2	US-09-116-498-12	Sequence 10, Appli	355	30	61.2	30	4	US-08-118-270-87	Sequence 87, Appli
282	31	63.3	360	2	US-09-852-158-10	Sequence 10, Appli	356	30	61.2	30	1	US-08-166-930-10	Sequence 10, Appli
283	31	63.3	360	2	US-09-852-156-12	Sequence 12, Appli	357	30	61.2	30	1	US-08-727-045A-10	Sequence 10, Appli
284	31	63.3	376	2	US-09-602-777A-412	Sequence 412, App	358	30	61.2	69	1	US-09-408-112-10	Sequence 10, Appli
285	31	63.3	407	2	US-09-252-991A-21511	Sequence 21511, A	359	30	61.2	69	1	US-09-270-767-58481	Sequence 58481, A
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288	31	63.3	458	2	US-09-328-352-4741	Sequence 4741, Ap	362	30	61.2	74	2	US-09-311-021-100	Sequence 100, App
289	31	63.3	486	2	US-09-716-865-6	Sequence 6, Appli	363	30	61.2	84	2	US-09-311-021-100	Sequence 100, App
290	31	63.3	487	2	US-09-248-796A-18251	Sequence 18251, A	364	30	61.2	85	2	US-09-902-540-10326	Sequence 10326, A
291	31	63.3	506	2	US-09-248-796A-20075	Sequence 20075, A	365	30	61.2	87	2	US-09-248-796A-27499	Sequence 27499, A
292	31	63.3	514	2	US-09-252-991A-18161	Sequence 18161, A	366	30	61.2	90	2	US-09-540-236-2158	Sequence 2158, Ap
293	31	63.3	522	2	US-09-489-039A-10041	Sequence 10041, A	367	30	61.2	90	2	US-09-270-767-36945	Sequence 36945, A
294	31	63.3	539	2	US-09-248-796A-16827	Sequence 16827, A	368	30	61.2	90	2	US-09-270-767-52162	Sequence 52162, A
295	31	63.3	776	2	US-10-104-047-2108	Sequence 2108, Ap	369	30	61.2	91	2	US-09-543-681A-6263	Sequence 6263, Ap
296	31	63.3	823	2	US-09-000-016-2	Sequence 2, Appli	370	30	61.2	119	2	US-09-902-540-14700	Sequence 14700, A
297	31	63.3	823	2	US-09-514-340-2	Sequence 2, Appli	371	30	61.2	147	2	US-09-471-276-835	Sequence 835, App
298	31	63.3	861	2	US-09-352-991A-18375	Sequence 18375, A	372	30	61.2	150	2	US-09-513-999C-4231	Sequence 4231, Ap
299	31	63.3	1025	1	US-08-304-309-2	Sequence 2, Appli	373	30	61.2	152	2	US-09-107-532A-3739	Sequence 3739, Ap
300	31	63.3	1025	1	US-08-304-309-4	Sequence 4, Appli	374	30	61.2	158	2	US-09-107-532A-3739	Sequence 3739, Ap
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305	31	63.3	1025	4	PCT-US95-04567-2	Sequence 4, Appli	379	30	61.2	189	2	US-09-252-991A-28670	Sequence 28670, A
306	31	63.3	1025	4	PCT-US95-04567-4	Sequence 4, Appli	380	30	61.2	192	2	US-09-198-452A-827	Sequence 827, App
307	31	63.3	3460	2	US-09-334-220-1	Sequence 1, Appli	381	30	61.2	192	2	US-09-270-767-47611	Sequence 47611, A
308	31	63.3	3461	2	US-09-334-220-2	Sequence 2, Appli	382	30	61.2	196	2	US-10-197-220-76	Sequence 76, Appli
309	30.5	62.2	185	2	US-09-025-258-623	Sequence 623, App	383	30	61.2	198	2	US-09-248-796A-20891	Sequence 20891, A
310	30.5	62.2	185	2	US-10-004-860-623	Sequence 623, App	384	30	61.2	200	2	US-08-311-731A-253	Sequence 253, App
311	30	61.2	11	2	US-08-660-092-63	Sequence 63, Appli	385	30	61.2	203	2	US-09-902-540-10232	Sequence 10232, A
312	30	61.2	11	2	US-09-160-513-63	Sequence 63, Appli	386	30	61.2	207	2	US-09-489-039A-8076	Sequence 8076, App
313	30	61.2	12	2	US-08-660-092-62	Sequence 62, Appli	387	30	61.2	213	2	US-09-438-185A-180	Sequence 180, App
314	30	61.2	12	2	US-09-160-513-62	Sequence 62, Appli	388	30	61.2	243	2	US-09-107-532A-1665	Sequence 1665, Ap
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317	30	61.2	13	1	US-08-748-021-33	Sequence 33, Appli	391	30	61.2	250	1	US-08-558-865-2	Sequence 558-865-2
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319	30	61.2	13	1	US-08-748-021-55	Sequence 55, Appli	392	30	61.2	250	2	US-08-654-025-2	Sequence 2, Appli

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395	30	61.2	253	2	US-09-252-991A-32751	Sequence 32751, A	468	29	59.2	9	2	US-10-365-908-5	Sequence 5, Appl1
396	30	61.2	253	2	US-09-902-540-12968	Sequence 12968, A	469	29	59.2	9	4	PCT-US95-02121-65	Sequence 65, Appl1
397	30	61.2	284	2	US-09-270-767-43145	Sequence 43145, A	470	29	59.2	10	2	US-10-365-908-47	Sequence 47, Appl1
398	30	61.2	302	2	US-09-543-681A-6986	Sequence 6986, Ap	471	29	59.2	20	2	US-09-794-5229-12	Sequence 12, Appl1
399	30	61.2	320	2	US-09-270-767-42941	Sequence 42941, A	472	29	59.2	20	2	US-09-794-5229-13	Sequence 13, Appl1
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401	30	61.2	350	2	US-09-489-039A-9626	Sequence 9626, Ap	474	29	59.2	20	2	US-09-794-5174-13	Sequence 13, Appl1
402	30	61.2	352	2	US-09-270-767-45115	Sequence 45115, A	475	29	59.2	20	2	US-09-011-6458-13	Sequence 13, Appl1
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404	30	61.2	375	1	US-08-837-593-5	Sequence 5, Appl1	477	29	59.2	20	2	US-09-794-832-12	Sequence 12, Appl1
405	30	61.2	375	1	US-08-623-034-2	Sequence 2, Appl1	478	29	59.2	20	2	US-09-794-832-13	Sequence 13, Appl1
406	30	61.2	381	2	US-09-248-796A-20097	Sequence 20097, A	479	29	59.2	20	2	US-09-680-806A-12	Sequence 12, Appl1
407	30	61.2	382	2	US-09-252-991A-21562	Sequence 21562, A	480	29	59.2	20	2	US-09-680-806A-13	Sequence 13, Appl1
408	30	61.2	459	2	US-09-949-016-10443	Sequence 10443, A	481	29	59.2	20	2	US-09-552-868-12	Sequence 12, Appl1
409	30	61.2	462	2	US-09-540-236-2425	Sequence 2425, Ap	482	29	59.2	20	2	US-09-552-868-13	Sequence 13, Appl1
410	30	61.2	467	2	US-09-252-991A-20991	Sequence 20991, A	483	29	59.2	20	2	US-09-636-295-12	Sequence 12, Appl1
411	30	61.2	486	2	US-09-734-237B-54	Sequence 54, Appl1	484	29	59.2	20	2	US-09-636-295-13	Sequence 13, Appl1
412	30	61.2	487	2	US-09-734-237B-56	Sequence 56, Appl1	485	29	59.2	29	2	US-09-934-915-66	Sequence 66, Appl1
413	30	61.2	488	2	US-09-540-236-2681	Sequence 2681, Ap	486	29	59.2	30	2	US-09-486-394-4	Sequence 4, Appl1
414	30	61.2	488	2	US-09-919-039-33	Sequence 33, Appl1	487	29	59.2	33	2	US-09-227-357-663	Sequence 663, App
415	30	61.2	491	1	US-08-206-176-4	Sequence 4, Appl1	488	29	59.2	33	2	US-09-973-278-444	Sequence 444, App
416	30	61.2	493	2	US-09-949-016-9617	Sequence 9617, Ap	489	29	59.2	48	2	US-09-851-873-46	Sequence 46, App
417	30	61.2	514	1	US-08-361-920-21	Sequence 21, Appl1	490	29	59.2	62	2	US-09-621-976-5283	Sequence 5283, Ap
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420	30	61.2	518	2	US-10-104-047-2392	Sequence 2392, Ap	493	29	59.2	82	2	US-09-107-433-2951	Sequence 2951, Ap
421	30	61.2	540	2	US-08-687-5808-7	Sequence 7, Appl1	494	29	59.2	82	2	US-09-540-236-3836	Sequence 3836, Ap
422	30	61.2	582	2	US-09-477-962-94	Sequence 94, Appl1	495	29	59.2	87	2	US-09-248-796A-22460	Sequence 22460, A
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424	30	61.2	632	2	US-10-101-464A-77	Sequence 77, Appl1	497	29	59.2	107	2	US-09-270-767-60221	Sequence 60221, A
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429	30	61.2	917	2	US-09-252-991A-25101	Sequence 25101, A	502	29	59.2	136	2	US-09-134-001C-4552	Sequence 4552, Ap
430	30	61.2	920	2	US-09-643-597-357	Sequence 357, App	503	29	59.2	138	2	US-10-104-047-3372	Sequence 3372, Ap
431	30	61.2	920	2	US-09-630-940B-357	Sequence 357, App	504	29	59.2	139	2	US-09-302-540-12007	Sequence 12007, A
432	30	61.2	920	2	US-10-007-700-357	Sequence 357, App	505	29	59.2	159	2	US-09-134-000C-4450	Sequence 4450, Ap
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436	30	61.2	943	2	US-09-480-884A-161	Sequence 161, App	509	29	59.2	171	2	US-09-252-991A-12536	Sequence 23536, A
437	30	61.2	943	2	US-09-542-615A-161	Sequence 161, App	510	29	59.2	182	2	US-09-438-185A-51	Sequence 51, Appl1
438	30	61.2	943	2	US-09-606-421B-161	Sequence 161, App	511	29	59.2	196	2	US-09-543-681A-7659	Sequence 7659, Ap
439	30	61.2	943	2	US-09-623-624-4	Sequence 4, Appl1	512	29	59.2	200	2	US-09-252-991A-20897	Sequence 20897, A
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442	30	61.2	943	2	US-09-466-396A-161	Sequence 161, App	515	29	59.2	225	1	US-08-300-903A-14	Sequence 14, Appl1
443	30	61.2	943	2	US-09-476-496A-161	Sequence 161, App	516	29	59.2	225	2	US-08-988-197-14	Sequence 14, Appl1
444	30	61.2	943	2	US-10-270-595-4	Sequence 4, Appl1	517	29	59.2	225	2	US-09-583-110-3558	Sequence 3528, Ap
445	30	61.2	943	2	US-09-630-940B-161	Sequence 161, App	518	29	59.2	225	2	US-10-385-072-14	Sequence 14, Appl1
446	30	61.2	943	2	US-09-285-479-161	Sequence 161, App	519	29	59.2	227	2	US-09-485-885-16	Sequence 16, Appl1
447	30	61.2	943	2	US-10-007-700-161	Sequence 161, App	520	29	59.2	227	2	US-09-485-885-16	Sequence 19, Appl1
448	30	61.2	946	2	US-08-560-005-4	Sequence 4, Appl1	521	29	59.2	227	2	US-09-634-238-324	Sequence 324, App
449	30	61.2	946	2	US-09-418-540-4	Sequence 4, Appl1	522	29	59.2	228	2	US-09-270-767-33973	Sequence 39073, A
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453	30	61.2	1290	1	US-08-138-133-2	Sequence 956, App	526	29	59.2	234	1	US-08-300-903A-11	Sequence 11, Appl1
454	30	61.2	1290	1	US-09-538-092-956	Sequence 956, App	527	29	59.2	234	1	US-08-988-197-11	Sequence 11, Appl1
455	30	61.2	1479	2	US-09-949-016-10141	Sequence 10141, A	528	29	59.2	234	2	US-10-385-072-11	Sequence 11, Appl1
456	30	61.2	1479	2	US-08-840-062-2	Sequence 2, Appl1	529	29	59.2	242	2	US-09-489-039A-7317	Sequence 7317, Ap
457	30	61.2	2210	2	US-09-309-572-7	Sequence 7, Appl1	530	29	59.2	242	2	US-08-469-260A-42	Sequence 42, Appl1
458	30	61.2	2210	2	US-09-718-096-7	Sequence 7, Appl1	531	29	59.2	245	2	US-08-468-446-42	Sequence 42, Appl1
459	30	61.2	2210	2	US-09-640-211A-880	Sequence 880, App	532	29	59.2	245	2	US-08-467-344A-42	Sequence 42, Appl1
460	29.5	60.2	124	9	US-08-767-547-106	Sequence 106, App	533	29	59.2	245	2	US-08-424-550B-42	Sequence 42, Appl1
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463	29	59.2	9	2	US-09-159-425C-1	Sequence 1, Appl1	536	29	59.2	250	2	US-09-718-032-3	Sequence 3, Appl1
464	29	59.2	9	2	US-08-197-484-65	Sequence 65, Appl1	537	29	59.2	251	1	US-08-300-903A-7	Sequence 7, Appl1
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540	29	59.2	251	2	US-10-385-072-7	Sequence 7, Appli	613	29	59.2	450	2	US-09-825-923-4	Sequence 4, Appli
541	29	59.2	259	2	US-09-248-796A-18367	Sequence 18367, A	614	29	59.2	451	2	US-09-107-433-3636	Sequence 3636, Ap
542	29	59.2	259	2	US-09-902-540-11317	Sequence 11317, A	615	29	59.2	471	2	US-09-955-732A-21	Sequence 21, Appl
543	29	59.2	267	1	US-08-300-903A-15	Sequence 15, Appl	616	29	59.2	477	2	US-09-252-991A-24172	Sequence 24172, A
544	29	59.2	267	1	US-08-988-197-15	Sequence 15, Appl	617	29	59.2	480	2	US-09-902-540-10711	Sequence 10711, A
545	29	59.2	267	2	US-10-385-072-15	Sequence 15, Appl	618	29	59.2	482	2	US-09-489-039A-9369	Sequence 9369, App
546	29	59.2	267	2	US-09-949-002-335	Sequence 335, App	619	29	59.2	488	2	US-09-461-697-375	Sequence 375, App
547	29	59.2	268	2	US-09-543-681A-4676	Sequence 4676, App	620	29	59.2	490	2	US-09-461-697-373	Sequence 373, App
548	29	59.2	268	2	US-09-270-767-13013	Sequence 43013, A	621	29	59.2	492	2	US-09-198-452A-485	Sequence 485, App
549	29	59.2	271	2	US-09-902-540-12298	Sequence 12298, A	622	29	59.2	492	2	US-09-270-767-46706	Sequence 46706, App
550	29	59.2	272	1	US-08-117-083-13	Sequence 13, Appl	623	29	59.2	500	2	US-10-012-331A-148	Sequence 148, App
551	29	59.2	281	2	US-09-270-767-62321	Sequence 62321, A	624	29	59.2	500	2	US-10-015-389A-148	Sequence 148, App
552	29	59.2	282	2	US-09-902-540-13297	Sequence 13297, A	625	29	59.2	500	2	US-10-006-678A-148	Sequence 148, App
553	29	59.2	294	2	US-09-949-002-429	Sequence 429, App	626	29	59.2	500	2	US-10-015-933A-148	Sequence 148, App
554	29	59.2	297	2	US-09-270-767-44761	Sequence 44761, A	627	29	59.2	500	2	US-10-015-933A-148	Sequence 148, App
555	29	59.2	304	2	US-09-198-452A-541	Sequence 541, App	628	29	59.2	500	2	US-10-015-933A-148	Sequence 148, App
556	29	59.2	309	2	US-09-134-001C-5667	Sequence 5667, App	629	29	59.2	500	2	US-10-015-933A-148	Sequence 148, App
557	29	59.2	311	2	US-09-659-737A-8	Sequence 8, Appli	630	29	59.2	500	2	US-10-006-041A-148	Sequence 148, App
558	29	59.2	311	2	US-10-885-921-8	Sequence 8, Appli	631	29	59.2	500	2	US-10-012-064A-148	Sequence 148, App
559	29	59.2	313	2	US-09-538-092-722	Sequence 722, App	632	29	59.2	503	2	US-09-562-737-63	Sequence 63, Appl
560	29	59.2	330	1	US-08-118-270-20	Sequence 20, Appl	633	29	59.2	511	2	US-09-949-016-6111	Sequence 6111, Ap
561	29	59.2	330	4	PCT-US93-08528-20	Sequence 20, Appl	634	29	59.2	519	2	US-09-949-016-7883	Sequence 7883, Ap
562	29	59.2	336	1	US-07-904-073-2	Sequence 2, Appli	635	29	59.2	534	2	US-09-489-039A-8550	Sequence 8550, App
563	29	59.2	336	1	US-08-442-043A-16	Sequence 16, Appl	636	29	59.2	542	2	US-09-949-016-10795	Sequence 10795, A
564	29	59.2	336	1	US-08-441-893A-16	Sequence 16, Appl	637	29	59.2	555	2	US-09-489-039A-10752	Sequence 10752, A
565	29	59.2	336	1	US-08-441-893A-16	Sequence 16, Appl	638	29	59.2	568	2	US-09-328-352-5460	Sequence 5460, Ap
566	29	59.2	338	2	US-09-543-681A-5499	Sequence 5499, App	639	29	59.2	569	1	US-07-821-716-2	Sequence 2, Appli
567	29	59.2	340	2	US-09-902-540-11444	Sequence 11444, A	640	29	59.2	569	1	US-08-381-003-2	Sequence 2, Appli
568	29	59.2	343	2	US-09-328-352-6577	Sequence 6577, App	641	29	59.2	569	2	US-08-924-376-2	Sequence 2, Appli
569	29	59.2	345	2	US-09-543-681A-7546	Sequence 7546, App	642	29	59.2	569	2	US-08-685-212-2	Sequence 2, Appli
570	29	59.2	348	2	US-09-489-039A-8632	Sequence 8632, App	643	29	59.2	569	2	US-09-173-151A-31	Sequence 31, Appl
571	29	59.2	361	2	US-09-602-787A-158	Sequence 158, App	644	29	59.2	569	2	US-08-466-932A-2	Sequence 2, Appli
572	29	59.2	371	1	US-08-837-593-6	Sequence 6, Appli	645	29	59.2	569	2	US-08-406-824A-6	Sequence 6, Appli
573	29	59.2	375	2	US-09-828-313-34	Sequence 34, Appl	646	29	59.2	569	4	US-09-949-016-6000	Sequence 6000, Ap
574	29	59.2	378	2	US-09-107-532A-7777	Sequence 3777, App	647	29	59.2	569	4	PCT-US94-02414-2	Sequence 2, Appli
575	29	59.2	379	2	US-09-489-039A-8951	Sequence 8951, App	648	29	59.2	569	4	PCT-US96-08899-2	Sequence 2, Appli
576	29	59.2	379	2	US-09-248-796A-17132	Sequence 17132, A	649	29	59.2	588	2	US-09-949-016-6572	Sequence 8572, Ap
577	29	59.2	383	2	US-09-485-885-23	Sequence 23, Appl	650	29	59.2	591	2	US-09-949-016-6591	Sequence 2, Appli
578	29	59.2	390	2	US-09-198-452A-254	Sequence 254, App	651	29	59.2	591	2	US-09-718-032-2	Sequence 103, App
579	29	59.2	390	2	US-09-438-185A-243	Sequence 243, App	652	29	59.2	591	2	US-09-291-417D-103	Sequence 2, Appli
580	29	59.2	392	2	US-09-489-039A-11256	Sequence 11256, A	653	29	59.2	591	2	US-09-949-016-6665	Sequence 6665, App
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586	29	59.2	408	2	US-09-270-767-60172	Sequence 60172, A	659	29	59.2	672	2	US-10-104-047-3377	Sequence 3377, Ap
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594	29	59.2	421	2	US-09-438-185A-869	Sequence 869, App	667	29	59.2	694	2	US-09-949-016-10445	Sequence 10445, A
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745	28	57.1	9	2	US-10-365-008-64	Sequence 64, Appl1	818	28	57.1	255	2	US-09-173-300-33	Sequence 33, Appl1
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854	28	57.1	328	2	US-08-513-974B-371	Sequence 371, App	927	28	57.1	509	2	US-09-183-959-8	Sequence 8, Appli
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861	28	57.1	333	2	US-09-489-039A-8678	Sequence 10506, A	934	28	57.1	518	2	US-09-329-418-4	Sequence 4, Appli
862	28	57.1	333	2	US-09-489-039A-10506	Sequence 6274, Ap	935	28	57.1	518	2	US-09-329-418-5	Sequence 5, Appli
863	28	57.1	339	2	US-09-949-016-6274	Sequence 2, Appli	936	28	57.1	518	2	US-09-329-418-9	Sequence 9, Appli
864	28	57.1	342	1	US-08-619-919-2	Sequence 2, Appli	937	28	57.1	518	2	US-09-531-914-3	Sequence 3, Appli
865	28	57.1	342	1	PCT-US95-08542-2	Sequence 2, Appli	938	28	57.1	518	2	US-09-531-914-5	Sequence 5, Appli
866	28	57.1	342	4	US-09-902-540-11081	Sequence 11081, A	939	28	57.1	518	2	US-09-531-914-9	Sequence 9, Appli
867	28	57.1	344	2	US-09-902-540-12122	Patent No. 5340934	940	28	57.1	518	2	US-09-771-161A-231	Sequence 231, App
868	28	57.1	345	2	US-09-902-540-12122	Sequence 366, App	941	28	57.1	518	2	US-08-983-945-4	Sequence 14662, A
869	28	57.1	353	6	US-09-071-035-366	Sequence 366, App	942	28	57.1	540	2	US-09-248-796A-18652	Sequence 18674, A
870	28	57.1	357	2	US-10-206-576-366	Sequence 4, Appli	943	28	57.1	544	2	US-09-252-991A-19674	Sequence 61684, A
871	28	57.1	357	2	US-08-303-238-4	Sequence 4, Appli	944	28	57.1	545	2	US-09-270-767-6164	Sequence 10670, A
872	28	57.1	359	1	US-08-458-834-4	Sequence 4630, Ap	945	28	57.1	550	2	US-09-902-540-10670	Sequence 10660, A
873	28	57.1	359	2	US-09-538-092-868	Sequence 6143, Ap	946	28	57.1	555	2	US-09-949-016-10660	Sequence 10, Appli
874	28	57.1	359	2	US-09-134-000C-4630	Sequence 7925, Ap	947	28	57.1	560	1	US-09-188-469-10	Sequence 10, Appli
875	28	57.1	359	2	US-09-949-016-6143	Sequence 2, Appli	948	28	57.1	560	2	US-08-983-945-4	Sequence 4, Appli
876	28	57.1	360	2	US-09-020-743-2	Sequence 2, Appli	949	28	57.1	560	2	US-09-397-238A-10	Sequence 10, Appli
877	28	57.1	360	2	US-10-089-787-2	Sequence 3, Appli	950	28	57.1	560	2	US-10-104-047-414	Sequence 2414, Ap
878	28	57.1	360	2	US-08-415-751-3	Sequence 510, App	951	28	57.1	571	2	US-09-583-110-5242	Sequence 5242, Ap
879	28	57.1	361	1	US-10-101-464A-510	Sequence 37, Appli	952	28	57.1	571	2	US-09-107-433-8211	Sequence 4211, Ap
880	28	57.1	365	2	US-08-837-593-9	Sequence 11748, A	953	28	57.1	574	2	US-09-529-279-4	Sequence 497, App
881	28	57.1	372	1	US-09-902-540-11748	Sequence 20843, A	954	28	57.1	579	2	US-10-158-895-4	Sequence 4, Appli
882	28	57.1	372	2	US-09-248-796A-20843	Sequence 9422, Ap	955	28	57.1	589	2	US-09-328-352-6901	Sequence 6901, Ap
883	28	57.1	378	2	US-09-489-039A-9422	Sequence 5607, Ap	956	28	57.1	590	2	US-10-138-885-15	Sequence 15, Appli
884	28	57.1	385	2	US-09-134-001C-5607	Sequence 10, Appli	957	28	57.1	600	2	US-08-975-084-1	Sequence 1, Appli
885	28	57.1	386	2	US-09-419-679-10	Sequence 4, Appli	958	28	57.1	600	2	US-08-814-095-4	Sequence 4, Appli
886	28	57.1	387	1	US-08-837-593-4	Sequence 9865, Ap	959	28	57.1	602	2	US-09-446-100-21	Sequence 21, Appli
887	28	57.1	391	2	US-09-949-016-9863	Sequence 2, Appli	960	28	57.1	602	2	US-08-446-100-20	Sequence 20, Appli
888	28	57.1	393	1	US-08-837-593-2	Sequence 3, Appli	961	28	57.1	602	2	US-09-446-100-22	Sequence 22, Appli
889	28	57.1	393	1	US-08-837-593-3	Sequence 5594, Ap	962	28	57.1	614	1	US-08-446-100-23	Sequence 23, Appli
890	28	57.1	393	1	US-09-134-001C-5594	Sequence 9992, Ap	963	28	57.1	614	2	US-08-446-100-25	Sequence 25, Appli
891	28	57.1	399	2	US-09-489-039A-9992	Sequence 12665, A	964	28	57.1	614	2	US-08-814-095-2	Sequence 8, Appli
892	28	57.1	406	2	US-09-489-039A-9992	Sequence 12665, A	965	28	57.1	614	2	US-09-531-914-8	Sequence 8, Appli
893	28	57.1	406	2	US-09-489-039A-9992	Sequence 12665, A	966	28	57.1	614	2	US-09-252-991A-27513	Sequence 27513, A
894	28	57.1	406	2	US-09-489-039A-9992	Sequence 12665, A	967	28	57.1	614	2	US-09-134-001C-3051	Sequence 3051, Ap
895	28	57.1	406	2	US-09-489-039A-9992	Sequence 12665, A	968	28	57.1	614	2	US-10-101-464A-938	Sequence 938, App
896	28	57.1	406	2	US-09-489-039A-9992	Sequence 12665, A	969	28	57.1	614	2	US-09-540-336-2969	Sequence 2969, Ap
897	28	57.1	406	2	US-09-489-039A-9992	Sequence 12665, A	970	28	57.1	614	2	US-09-540-236-2883	Sequence 2883, Ap
898	28	57.1	406	2	US-09-489-039A-9992	Sequence 12665, A	971	28	57.1	614	2	US-09-328-352-8150	Sequence 8150, Ap
899	28	57.1	406	2	US-09-489-039A-9992	Sequence 12665, A	972	28	57.1	614	2	US-09-107-633-4820	Sequence 4820, Ap
900	28	57.1	406	2	US-09-489-039A-9992	Sequence 12665, A	973	28	57.1	614	2	US-09-557-524B-4	Sequence 4, Appli
901	28	57.1	406	2	US-09-489-039A-9992	Sequence 12665, A	974	28	57.1	614	2	US-09-252-991A-24194	Sequence 24194, A
902	28	57.1	406	2	US-09-489-039A-9992	Sequence 12665, A	975	28	57.1	614	2	US-09-328-352-6912	Sequence 6912, Ap
903	28	57.1	406	2	US-09-489-039A-9992	Sequence 12665, A	976	28	57.1	614	2	US-09-328-352-6912	Sequence 6912, Ap

977 28 57.1 614 4 PCT-US92-06106-2 Sequence 2, Appl1
978 28 57.1 617 1 US-08-370-156-6 Sequence 6, Appl1
979 28 57.1 617 2 US-08-814-095-6 Sequence 6, Appl1
980 28 57.1 624 2 US-08-422-108-1 Sequence 1, Appl1
981 28 57.1 624 2 US-08-422-734-1 Sequence 1, Appl1
982 28 57.1 633 2 US-09-949-016-9902 Sequence 9902, Ap
983 28 57.1 645 2 US-09-949-016-7063 Sequence 7063, Ap
984 28 57.1 645 2 US-09-949-016-7064 Sequence 7064, Ap
985 28 57.1 645 2 US-09-602-812A-13 Sequence 13, Appl
986 28 57.1 662 2 US-09-252-991A-24376 Sequence 24376, A
987 28 57.1 705 2 US-08-311-731A-4 Sequence 4, Appl1
988 28 57.1 722 1 US-08-158-232-51 Sequence 51, Appl
989 28 57.1 722 1 US-08-611-528-51 Sequence 51, Appl
990 28 57.1 722 2 US-09-173-891-51 Sequence 51, Appl
991 28 57.1 722 2 US-09-853-533A-10 Sequence 10, Appl
992 28 57.1 725 2 US-09-252-991A-21212 Sequence 21212, A
993 28 57.1 727 2 US-09-815-923-10 Sequence 10, Appl
994 28 57.1 731 2 US-09-708-426-12 Sequence 12, Appl
995 28 57.1 738 2 US-09-107-532A-5096 Sequence 5096, Ap
996 28 57.1 771 2 US-08-434-000A-8 Sequence 8, Appl1
997 28 57.1 771 2 US-09-312-157-8 Sequence 8, Appl1
998 28 57.1 771 2 US-09-717-888-8 Sequence 8, Appl1
999 28 57.1 771 2 US-09-818-247-4 Sequence 4, Appl1
1000 28 57.1 782 1 US-09-146-283-4 Sequence 4, Appl1

ALIGNMENTS

RESULT 1
US-09-169-425C-21
Sequence 21, Application US/09169425C
Patent No. 6183746
GENERAL INFORMATION:
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
APPLICANT: Collins, Edward J.
APPLICANT: Hedley, Mary Lynn
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
TITLE OF INVENTION: PROTEIN
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/169,425C
FILING DATE: 09-OCT-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/061,657
FILING DATE: 09-OCT-1997
ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/004002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-543-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide

US-09-169-425C-21

Query Match 100.0%; Score 49; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4,6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTIGIVCP1 9
|||||||
Db 1 GTIGIVCP1 9

RESULT 2
US-08-197-484-70
Sequence 70, Application US/08197484
Patent No. 641931

GENERAL INFORMATION:
APPLICANT: VITIELLO, Maria A.
APPLICANT: CHESTNUT, Robert W.
APPLICANT: SETTE, Alessandro D.
APPLICANT: CELIS, Esben
APPLICANT: GRAY, Howard
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ELICITING
TITLE OF INVENTION: CTL IMMUNITY
NUMBER OF SEQUENCES: 153
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend Knourie and Crew
STREET: Steuart Street Tower, One Market Plaza
CITY: San Francisco
STATE: California
COUNTRY: US
ZIP: 94105-1493
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/197,484
FILING DATE: 16-FEB-1994
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/935,811
FILING DATE: 26-AUG-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/874,491
FILING DATE: 27-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/827,682
FILING DATE: 29-JAN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/749,568
FILING DATE: 26-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: Parmelee, Steven W.
REGISTRATION NUMBER: 31,990
REFERENCE/DOCKET NUMBER: 14137-26-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 467-9600
TELEFAX: (206) 623-6793
INFORMATION FOR SEQ ID NO: 70:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: peptide
US-08-197-484-70

QY 1 GTIGIVCP1 9
Query Match 100.0%; Score 49; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4,6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 GTLGVCP1 9

RESULT 3

US-09-759-960-21

Sequence 21, Application US/09759960

Patent No. 6582704

GENERAL INFORMATION:

APPLICANT: Urban, Robert G.

APPLICANT: Collins, Edward J.

APPLICANT: Hedley, Mary Lynn

TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7

TITLE OF INVENTION: PROTEIN

NUMBER OF SEQUENCES: 33

CORRESPONDENCE ADDRESS:

ADDRESSEE: Fish & Richardson, P.C.

STREET: 225 Franklin Street

CITY: Boston

STATE: MA

COUNTRY: US

ZIP: 02110-2804

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: Windows95

SOFTWARE: PasteSeq for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/759,960

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/169,425

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Frazer, Janis K.

REGISTRATION NUMBER: 34,819

REFERENCE/DOCKET NUMBER: 08191/004002

TELECOMMUNICATION INFORMATION:

TELEPHONE: 617-542-5070

TELEFAX: 617-543-8906

TELEX: 200154

INFORMATION FOR SEQ ID NO: 21:

SEQUENCE CHARACTERISTICS:

LENGTH: 9 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: peptide

US-09-759-960-21

Query Match

Best Local Similarity 100.0%; Score 49; DB 2; Length 9;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 GTLGVCP1 9

Db 1 GTLGVCP1 9

RESULT 4

US-10-365-908-50

Sequence 50, Application US/10365908

Patent No. 6797491

GENERAL INFORMATION:

APPLICANT: Neefe, John R.

APPLICANT: Boux, Leslie J.

APPLICANT: Winnett, Mark T.

APPLICANT: Goldstone, Stephen E.

APPLICANT: Siegel, Marvin

TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT

FILE REFERENCE: 12071-003001

CURRENT APPLICATION NUMBER: US/10/365,908

CURRENT FILING DATE: 2003-02-13

Query Match

Best Local Similarity 100.0%; Score 49; DB 4; Length 9;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 GTLGVCP1 9

Db 1 GTLGVCP1 9

PRIOR APPLICATION NUMBER: US/09/891,823

PRIOR FILING DATE: 2001-10-19

PRIOR APPLICATION NUMBER: US 60/214,202

PRIOR FILING DATE: 2000-06-26

NUMBER OF SEQ ID NOS: 140

SOFTWARE: PasteSeq for Windows Version 4.0

SEQ ID NO 50

LENGTH: 9

TYPE: PRT

ORGANISM: Human papilloma virus

US-10-365-908-50

Query Match

Best Local Similarity 100.0%; Score 49; DB 2; Length 9;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 GTLGVCP1 9

Db 1 GTLGVCP1 9

RESULT 5

PCT-US95-02121-70

Sequence 70, Application PC/TUS9502121

GENERAL INFORMATION:

APPLICANT:

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ELICITING

TITLE OF INVENTION: CTL IMMUNITY

NUMBER OF SEQUENCES: 153

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT/US95/02121

FILING DATE: 16-FEB-1995

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/197,484

FILING DATE: 16-FEB-1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/935,811

FILING DATE: 26-AUG-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/874,491

FILING DATE: 27-APR-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/827,682

FILING DATE: 29-JAN-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/749,568

FILING DATE: 26-AUG-1991

ATTORNEY/AGENT INFORMATION:

NAME: Parmelee, Steven W.

REGISTRATION NUMBER: 31,990

REFERENCE/DOCKET NUMBER: 14137-26-4PC

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 467-9600

TELEFAX: (415) 543-5043

INFORMATION FOR SEQ ID NO: 70:

SEQUENCE CHARACTERISTICS:

LENGTH: 9 amino acids

TYPE: amino acid

STRANDEDNESS: unknown

TOPOLOGY: unknown

MOLECULE TYPE: peptide

PCT-US95-02121-70

Query Match

Best Local Similarity 100.0%; Score 49; DB 4; Length 9;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 GTLGVCP1 9

Db 1 GTLGVCP1 9

QY 1 GTLGIVCPI 9
| | | | |
Db 1 GTLGIVCPI 9

RESULT 6

US-09-000-003A-9
; Sequence 9, Application US/09000003A
; Patent No. 6652850
; GENERAL INFORMATION:
; APPLICANT: Philip, Ramla
; lebkowetz, Jane S
; TITLE OF INVENTION: ADENO-ASSOCIATED VIRAL LIPOSOMES AND
; THEIR USE IN TRANSFECTING DENDRITIC CELLS TO STIMULATE
; SPECIFIC IMMUNITY
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Alexis Barton, Esq.
; STREET: Suite 2600 Aramark Tower, 1101 Market Street
; CITY: Philadelphia
; STATE: PA
; COUNTRY: United States of America
; ZIP: 19107
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/000,003A
; FILING DATE: 15-Jun-1998
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/12012
; FILING DATE: 19-JUL-1996
; APPLICATION NUMBER: US 60/001,312
; FILING DATE: 21-JUL-1995
; APPLICATION NUMBER: US 60/007,184
; FILING DATE: 01-NOV-1995
; APPLICATION NUMBER: US 08/566,286
; FILING DATE: 01-DEC-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Barton, Alexis
; REGISTRATION NUMBER: 22,702
; REFERENCE/DOCKET NUMBER: 20,846-K USA
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 923-4466
; TELEFAX: (215) 923-2189
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
; SEQUENCE DESCRIPTION: SEQ ID NO: 9:
US-09-000-003A-9

Query Match 100.0%; Score 49; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGIVCPI 9
| | | | |
Db 1 GTLGIVCPI 9

RESULT 7
US-09-405-986A-10
; Sequence 10, Application US/09405986A
; Patent No. 6676946
; GENERAL INFORMATION:
; APPLICANT: Bay, Sylvie

; APPLICANT: Cantacuzene, Daniele
; APPLICANT: Leclerc, Claude
; APPLICANT: Lo-Man, Richard
; TITLE OF INVENTION: MULTIPLE ANTIGEN GLYCOPETIDE CARBOHYDRATE,
; FILE REFERENCE: 102,166A-1
; CURRENT APPLICATION NUMBER: US/09/405,986A
; CURRENT FILING DATE: 2002-06-11
; PRIOR APPLICATION NUMBER: US 09/049,847
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: US 60/041,726
; PRIOR FILING DATE: 1997-03-27
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 10
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
; FEATURE:
; NAME/KEY: MISC FEATURE
; OTHER INFORMATION: HPV16 E7 PEPTIDE
US-09-405-986A-10

Query Match 100.0%; Score 49; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGIVCPI 9
| | | | |
Db 1 GTLGIVCPI 9

RESULT 8
US-10-365-908-46
; Sequence 46, Application US/10365908
; Patent No. 6797491
; GENERAL INFORMATION:
; APPLICANT: Neefe, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/10/365,908
; CURRENT FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US/09/891,823
; PRIOR FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: FastSeq for windows version 4.0
; SEQ ID NO 46
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-10-365-908-46

Query Match 100.0%; Score 49; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGIVCPI 9
| | | | |
Db 2 GTLGIVCPI 10

RESULT 9
US-09-169-425C-31
; Sequence 31, Application US/09169425C
; Patent No. 6183746
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.

```

;
; APPLICANT: Chicz, Roman M.
; APPLICANT: Collins, Edward J.
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
; TITLE OF INVENTION: PROTEIN
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/169,425C
; FILING DATE: 09-OCT-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/061,657
; FILING DATE: 09-OCT-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 08191/004002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-543-8906
;
; INFORMATION FOR SEQ ID NO: 31:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: Other
; LOCATION: 1...1
; OTHER INFORMATION: where Xaa at position 1 is Met, Ala, Ser,
; ; OTHER INFORMATION: Arg, Lys, Gly, Gln, Asp, or Glu
;
; US-09-169-425C-31
;
; Query Match 100.0%; Score 49; DB 2; Length 11;
; Best Local Similarity 100.0%; Pred. No. 0.016;
; Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
; QY 1 GTLGIVCPI 9
; DB 2 GTLGIVCPI 10
;
; RESULT 10
; US-09-169-425C-33
; Sequence 33, Application US/09169425C
; Patent No. 6183746
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; APPLICANT: Collins, Edward J.
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
; TITLE OF INVENTION: PROTEIN
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804

```

```

;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/169,425C
; FILING DATE: 09-OCT-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/061,657
; FILING DATE: 09-OCT-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 08191/004002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-543-8906
;
; INFORMATION FOR SEQ ID NO: 33:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
;
; US-09-169-425C-33
;
; Query Match 100.0%; Score 49; DB 2; Length 11;
; Best Local Similarity 100.0%; Pred. No. 0.016;
; Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
; QY 1 GTLGIVCPI 9
; DB 2 GTLGIVCPI 10
;
; RESULT 11
; US-09-759-960-31
; Sequence 31, Application US/09759960
; Patent No. 6582704
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; APPLICANT: Collins, Edward J.
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
; TITLE OF INVENTION: PROTEIN
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/759,960
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/169,425
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 08191/004002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-543-8906

```

```

;
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 31:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 11 amino acids
;   TYPE: amino acid
;   TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
;   NAME/KEY: Other
;   LOCATION: 1..11
; OTHER INFORMATION: where Xaa at position 1 is Met, Ala, Ser,
;   OTHER INFORMATION: Arg, Lys, Gly, Gln, Asp, or Glu
; US-09-759-960-31
Query Match          100.0%; Score 49; DB 2; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.016;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGIVCPI 9
Db 2 GTLGIVCPI 10

RESULT 12
US-09-759-960-33
; Sequence 33, Application US/09759960
; Patent No. 6582704
; GENERAL INFORMATION:
;   APPLICANT: Urban, Robert G.
;   APPLICANT: Chiciz, Roman M.
;   APPLICANT: Collins, Edward J.
;   APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
; TITLE OF INVENTION: PROTEIN
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
;   ADDRESSEE: Fish & Richardson, P.C.
;   STREET: 225 Franklin Street
;   CITY: Boston
;   STATE: MA
;   COUNTRY: US
;   ZIP: 02110-2804
; COMPUTER READABLE FORM:
;   MEDIUM TYPE: Diskette
;   COMPUTER: IBM Compatible
;   OPERATING SYSTEM: Windows95
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: US/09/759,960
; FILING DATE:
;   PRIOR APPLICATION DATA:
;     APPLICATION NUMBER: 09/169,425
; FILING DATE:
;   ATTORNEY/AGENT INFORMATION:
;     NAME: Fraser, Janis K.
;     REGISTRATION NUMBER: 34,819
;     REFERENCE/DOCKET NUMBER: 08191/004002
; TELECOMMUNICATION INFORMATION:
;   TELEPHONE: 617-542-5070
;   TELEFAX: 617-543-8906
;   TELEX: 200154
; INFORMATION FOR SEQ ID NO: 33:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 11 amino acids
;   TYPE: amino acid
;   TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-09-759-960-33
Query Match          100.0%; Score 49; DB 2; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.016;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 GTLGIVCPI 9
Db 2 GTLGIVCPI 10

RESULT 13
US-08-948-378A-16
; Sequence 16, Application US/08948378A
; Patent No. 6013258
; GENERAL INFORMATION:
;   APPLICANT: Urban, Robert G.
;   APPLICANT: Chiciz, Roman M.
;   APPLICANT: Collins, Edward J.
;   APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM
; TITLE OF INVENTION: THE HPV E7 PROTEIN
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
;   ADDRESSEE: Fish & Richardson, P.C.
;   STREET: 225 Franklin Street
;   CITY: Boston
;   STATE: MA
;   COUNTRY: US
;   ZIP: 02110-2804
; COMPUTER READABLE FORM:
;   MEDIUM TYPE: Diskette
;   COMPUTER: IBM Compatible
;   OPERATING SYSTEM: Windows95
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: US/08/948,378A
; FILING DATE: 09-OCT-1997
; PRIOR APPLICATION DATA:
;   APPLICATION NUMBER:
; FILING DATE:
;   ATTORNEY/AGENT INFORMATION:
;     NAME: Fraser, Janis K.
;     REGISTRATION NUMBER: 34,819
;     REFERENCE/DOCKET NUMBER: 08191/004001
; TELECOMMUNICATION INFORMATION:
;   TELEPHONE: 617-542-5070
;   TELEFAX: 617-543-8906
;   TELEX: 200154
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 12 amino acids
;   TYPE: amino acid
;   TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-948-378A-16
Query Match          100.0%; Score 49; DB 2; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.018;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGIVCPI 9
Db 3 GTLGIVCPI 11

RESULT 14
US-09-169-425C-16
; Sequence 16, Application US/09169425C
; Patent No. 6183746
; GENERAL INFORMATION:
;   APPLICANT: Urban, Robert G.
;   APPLICANT: Chiciz, Roman M.
;   APPLICANT: Collins, Edward J.
;   APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
; TITLE OF INVENTION: PROTEIN
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
```


ADDRESSEE: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: PastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/169,425C
FILING DATE: 09-OCT-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/061,657
FILING DATE: 09-OCT-1997
ATTORNEY/AGENT INFORMATION:
NAME: Frazer, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/004002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-543-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-169-425C-16

Query Match 100.0%; Score 49; DB 2; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.018;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 GTLGIVCPI 9
Db 3 GTLGIVCPI 11

RESULT 15
US-09-759-960-16
Sequence 16, Application US/09759960
Patent No. 6582704
GENERAL INFORMATION:
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
APPLICANT: Collins, Edward J.
APPLICANT: Hedley, Mary Lynn
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: PastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/759,960
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/169,425
FILING DATE:
ATTORNEY/AGENT INFORMATION:

NAME: Frazer, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/004002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-543-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-759-960-16

Query Match 100.0%; Score 49; DB 2; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.018;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 GTLGIVCPI 9
Db 3 GTLGIVCPI 11

RESULT 16
US-08-948-378A-3
Sequence 3, Application US/08948378A
Patent No. 6013258
GENERAL INFORMATION:
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
APPLICANT: Collins, Edward J.
APPLICANT: Hedley, Mary Lynn
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: PastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/948,378A
FILING DATE: 09-OCT-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Frazer, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/004001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-543-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 13 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-948-378A-3

Query Match 100.0%; Score 49; DB 2; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.02;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTIGIVCPI 9
|||||
Db 4 GTIGIVCPI 12

RESULT 17
US-08-948-378A-4
; Sequence 4, Application US/08948378A
; Patent No. 6013258
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; APPLICANT: Collins, Edward J.
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM
; TITLE OF INVENTION: THE HPV E7 PROTEIN
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: IBM Compatible
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/948.378A
; FILING DATE: 09-OCT-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 08191/004001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-543-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 13 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-948-378A-4

Query Match 100.0%; Score 49; DB 2; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.02;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTIGIVCPI 9
|||||
Db 4 GTIGIVCPI 12

RESULT 18
US-08-948-378A-19
; Sequence 19, Application US/08948378A
; Patent No. 6013258
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; APPLICANT: Collins, Edward J.
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM
; TITLE OF INVENTION: THE HPV E7 PROTEIN
; NUMBER OF SEQUENCES: 19

; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: IBM Compatible
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/948.378A
; FILING DATE: 09-OCT-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 08191/004001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-543-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 13 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: Coding Sequence
; LOCATION: 1...1
; OTHER INFORMATION: where X at position 1 is Ala, Ser, Arg, Lys,
; OTHER INFORMATION: Gly, Gln, Asp, or Glu
; US-08-948-378A-19

Query Match 100.0%; Score 49; DB 2; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.02;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTIGIVCPI 9
|||||
Db 4 GTIGIVCPI 12

RESULT 19
US-08-159-339A-1167
; Sequence 1167, Application US/08159339A
; Patent No. 6037135
; GENERAL INFORMATION:
; APPLICANT: Kubo, Ralph T.
; APPLICANT: Grey, Howard M.
; APPLICANT: Sette, Alessandro
; APPLICANT: Celis, Esben
; TITLE OF INVENTION: HLA Binding peptides and their
; TITLE OF INVENTION: Uses
; NUMBER OF SEQUENCES: 1254
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth floor
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: IBM Compatible
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/159,339A
FILING DATE: 29-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 018623-005030US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
TELEX:
INFORMATION FOR SEQ ID NO: 1167:
SEQUENCE CHARACTERISTICS:
LENGTH: 13 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-159-339A-1167

Query Match 100.0%; Score 49; DB 2; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.02;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTLGIVCPI 9
Db 1 GTLGIVCPI 9

RESULT 20
US-09-169-425C-3
Sequence 3, Application US/09169425C
Patent No. 6183746
GENERAL INFORMATION:
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
APPLICANT: Collins, Edward J.
APPLICANT: Hedley, Mary Lynn
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
TITLE OF INVENTION: PROTEIN
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/169,425C
FILING DATE: 09-OCT-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/061,657
FILING DATE: 09-OCT-1997
ATTORNEY/AGENT INFORMATION:
NAME: Fraaser, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/004002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-543-8906

TELEX: 200154
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 13 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-169-425C-3

Query Match 100.0%; Score 49; DB 2; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.02;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTLGIVCPI 9
Db 4 GTLGIVCPI 12

RESULT 21
US-09-169-425C-4
Sequence 4, Application US/09169425C
Patent No. 6183746
GENERAL INFORMATION:
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
APPLICANT: Collins, Edward J.
APPLICANT: Hedley, Mary Lynn
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
TITLE OF INVENTION: PROTEIN
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/169,425C
FILING DATE: 09-OCT-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/061,657
FILING DATE: 09-OCT-1997
ATTORNEY/AGENT INFORMATION:
NAME: Fraaser, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/004002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-543-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 13 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-169-425C-4

Query Match 100.0%; Score 49; DB 2; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.02;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTLGIVCPI 9
Db 4 GTLGIVCPI 12

```
RESULT 22
US-09-169-425C-19
; Sequence 19, Application US/09169425C
; Patent No. 6183746
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.
; APPLICANT: Chiciz, Roman M.
; APPLICANT: Collins, Edward J.
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/169,425C
; FILING DATE: 09-OCT-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/061,657
; FILING DATE: 09-OCT-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 08191/004002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-543-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 13 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: Other
; LOCATION: 1..1
; OTHER INFORMATION: where Xaa at position 1 is Met, Ala, Ser,
; OTHER INFORMATION: Arg, Lys, Gly, Gln, Asp, or Glu
US-09-169-425C-19

Query Match          100.0%; Score 49; DB 2; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.02;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GTGIGVCP1 9
Db      4 GTGIGVCP1 12

RESULT 23
US-09-759-960-3
; Sequence 3, Application US/09759960
; Patent No. 6582704
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.
; APPLICANT: Chiciz, Roman M.
; APPLICANT: Collins, Edward J.
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/759,960
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/169,425
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 08191/004002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-543-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 13 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-759-960-3

Query Match          100.0%; Score 49; DB 2; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.02;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GTGIGVCP1 9
Db      4 GTGIGVCP1 12

RESULT 24
US-09-759-960-4
; Sequence 4, Application US/09759960
; Patent No. 6582704
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.
; APPLICANT: Chiciz, Roman M.
; APPLICANT: Collins, Edward J.
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/759,960
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/169,425
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
```

```
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/759,960
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/169,425
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 08191/004002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-543-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 13 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-759-960-3

Query Match          100.0%; Score 49; DB 2; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.02;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GTGIGVCP1 9
Db      4 GTGIGVCP1 12

RESULT 24
US-09-759-960-4
; Sequence 4, Application US/09759960
; Patent No. 6582704
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.
; APPLICANT: Chiciz, Roman M.
; APPLICANT: Collins, Edward J.
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/759,960
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/169,425
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
```

NAME: Fraser, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/004002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-543-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 13 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-759-960-4

Query Match 100.0%; Score 49; DB 2; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.02; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

Qy 1 GTIGIVCP1 9
Db 4 GTIGIVCP1 12

RESULT 25

US-09-759-960-19
Sequence 19, Application US/09759960
Patent No. 6582704
GENERAL INFORMATION:
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
APPLICANT: Collins, Edward J.
APPLICANT: Hedley, Mary Lynn
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
TITLE OF INVENTION: PROTEIN
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/759,960
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/169,425
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/004002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-543-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 13 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: Other
LOCATION: 1...1
OTHER INFORMATION: where Xaa at position 1 is Met, Ala, Ser,
OTHER INFORMATION: Arg, Lys, Gly, Gln, Asp, or Glu

US-09-759-960-19

Query Match 100.0%; Score 49; DB 2; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.02; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

Qy 1 GTIGIVCP1 9
Db 4 GTIGIVCP1 12

RESULT 26

US-09-169-425C-32
Sequence 32, Application US/09169425C
Patent No. 6183746
GENERAL INFORMATION:
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
APPLICANT: Collins, Edward J.
APPLICANT: Hedley, Mary Lynn
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
TITLE OF INVENTION: PROTEIN
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/169,425C
FILING DATE: 09-OCT-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/061,657
FILING DATE: 09-OCT-1997
ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/004002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-543-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 32:
SEQUENCE CHARACTERISTICS:
LENGTH: 14 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-169-425C-32

Query Match 100.0%; Score 49; DB 2; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.021; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

Qy 1 GTIGIVCP1 9
Db 2 GTIGIVCP1 10

RESULT 27

US-09-759-960-32
Sequence 32, Application US/09759960
Patent No. 6582704
GENERAL INFORMATION:
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.

```

; APPLICANT: Collins, Edward J.
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
; TITLE OF INVENTION: PROTEIN
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/759,960
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/169,425
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 08191/004002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-543-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 32:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 14 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-09-759-960-32

Query Match 100.0%; Score 49; DB 2; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.021;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGIVCPI 9
Db 2 GTLGIVCPI 10

RESULT 28
US-08-159-339A-1168
; Sequence 1168, Application US/08159339A
; Patent No. 6037135
; GENERAL INFORMATION:
; APPLICANT: Kubo, Ralph T.
; APPLICANT: Grey, Howard M.
; APPLICANT: Sette, Alessandro
; APPLICANT: Celis, Esben
; TITLE OF INVENTION: HLA Binding peptides and Their
; TITLE OF INVENTION: Uses
; NUMBER OF SEQUENCES: 1254
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
```

```

; APPLICATION NUMBER: US/08/159,339A
; FILING DATE: 29-NOV-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/926,666
; FILING DATE: 07-AUG-1992
; APPLICATION NUMBER: US 08/027,746
; FILING DATE: 05-MAR-1993
; APPLICATION NUMBER: US 08/103,396
; FILING DATE: 06-AUG-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Weber, Ellen Lauver
; REGISTRATION NUMBER: 32,762
; REFERENCE/DOCKET NUMBER: 018623-005030US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; TELEX:
; INFORMATION FOR SEQ ID NO: 1168:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-159-339A-1168

Query Match 100.0%; Score 49; DB 2; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.023;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGIVCPI 9
Db 3 GTLGIVCPI 11

RESULT 29
US-09-169-425C-25
; Sequence 25, Application US/09169425C
; Patent No. 6183746
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; APPLICANT: Collins, Edward J.
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
; TITLE OF INVENTION: PROTEIN
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/169,425C
; FILING DATE: 09-OCT-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/061,657
; FILING DATE: 09-OCT-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 08191/004002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-543-8906
```

TELEX: 200154
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-169-425C-25

Query Match 100.0%; Score 49; DB 2; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTLGIVCPI 9
Db 4 GTLGIVCPI 12

RESULT 30
US-09-759-960-25
Sequence 25, Application US/09759960
Patent No. 6582704
GENERAL INFORMATION:
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
APPLICANT: Collins, Edward J.
APPLICANT: Hedley, Mary Lynn
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/759,960
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/169,425
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Frazer, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/004002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-543-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-759-960-25

Query Match 100.0%; Score 49; DB 2; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTLGIVCPI 9
Db 4 GTLGIVCPI 12

RESULT 31
US-09-980-523A-18
Sequence 18, Application US/09980523A
Patent No. 6783763
GENERAL INFORMATION:
APPLICANT: CHOPPIN, JEANNINE
APPLICANT: BOURGAULT VILLADA, ISABELLE
APPLICANT: GUILLET, JEAN-GERARD
APPLICANT: CONNAN, FRANCINE
APPLICANT: FERRIES, ESTELLE
TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 AND E7
TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
TITLE OF INVENTION: PARTICULARLY IN VACCINATION
FILE REFERENCE: WO81 AO INS
CURRENT APPLICATION NUMBER: US/09/980,523A
CURRENT FILING DATE: 2002-04-29
PRIOR APPLICATION NUMBER: PCT/FR00/01513
PRIOR FILING DATE: 2000-05-31
PRIOR APPLICATION NUMBER: FR 99/07012
PRIOR FILING DATE: 1999-06-03
NUMBER OF SEQ ID NOS: 24
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 18
LENGTH: 19
TYPE: PRT
ORGANISM: Human Papillomavirus
US-09-980-523A-18

Query Match 100.0%; Score 49; DB 2; Length 19;
Best Local Similarity 100.0%; Pred. No. 0.029;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTLGIVCPI 9
Db 7 GTLGIVCPI 15

RESULT 32
US-08-075-541D-50
Sequence 50, Application US/08075541D
Patent No. 6183745
GENERAL INFORMATION:
APPLICANT: TINDLE, ROBERT
APPLICANT: FERNANDO, GERMAIN
APPLICANT: FRAZER, IAN
TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
NUMBER OF SEQUENCES: 56
CORRESPONDENCE ADDRESS:
ADDRESSEE: PANITCH SCHWARZ JACOBS & NADEL, P.C.
STREET: 1601 MARKET STREET, 36TH FLOOR
CITY: PHILADELPHIA
STATE: PENNSYLVANIA
COUNTRY: USA
ZIP: 19103-2298
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/075,541D
FILING DATE: 10-JUN-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: AU PK 3876
FILING DATE: 12-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/AU91/00575
FILING DATE: 12-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: NADEL, ALAN S
REGISTRATION NUMBER: 27,363

REFERENCE/DOCKET NUMBER: 8795-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-567-2020
TELEFAX: 215-567-2991
INFORMATION FOR SEQ ID NO: 50:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-075-541D-50

Query Match 100.0%; Score 49; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.03;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTIGIVCP1 9
DB 11 GTIGIVCP1 19

RESULT 33
US-08-934-915-50
Sequence 50, Application US/08934915
Patent No. 5932412
GENERAL INFORMATION:
APPLICANT: DILLNER, JOAKIM
APPLICANT: DILLNER, LENA
APPLICANT: CHENG, HWEE-MING
TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
TITLE OF INVENTION: DIAGNOSTIC PURPOSES
NUMBER OF SEQUENCES: 193
CORRESPONDENCE ADDRESS:
ADDRESSEE: MASON & ASSOCIATES, P.A.
STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
CITY: CLEARWATER
STATE: FLORIDA
COUNTRY: U.S.A.
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 3.0
SOFTWARE: Microsoft Word 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/934,915
FILING DATE: 22-SEP-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/949,836
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: LOUISE A. Foutch
REGISTRATION NUMBER: 37,133
REFERENCE/DOCKET NUMBER: 1946.6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 813-538-3800
TELEFAX: 813-538-3820
TELEX:
INFORMATION FOR SEQ ID NO: 50:
SEQUENCE CHARACTERISTICS:
LENGTH: 21 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-934-915-50

Query Match 100.0%; Score 49; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.032;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTIGIVCP1 9
DB 8 GTIGIVCP1 16

RESULT 34
US-08-934-915-157
Sequence 157, Application US/08934915
Patent No. 5932412
GENERAL INFORMATION:
APPLICANT: DILLNER, JOAKIM
APPLICANT: DILLNER, LENA
APPLICANT: CHENG, HWEE-MING
TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
TITLE OF INVENTION: DIAGNOSTIC PURPOSES
NUMBER OF SEQUENCES: 193
CORRESPONDENCE ADDRESS:
ADDRESSEE: MASON & ASSOCIATES, P.A.
STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
CITY: CLEARWATER
STATE: FLORIDA
COUNTRY: U.S.A.
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 3.0
SOFTWARE: Microsoft Word 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/934,915
FILING DATE: 22-SEP-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/949,836
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: LOUISE A. Foutch
REGISTRATION NUMBER: 37,133
REFERENCE/DOCKET NUMBER: 1946.6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 813-538-3800
TELEFAX: 813-538-3820
TELEX:
INFORMATION FOR SEQ ID NO: 157:
SEQUENCE CHARACTERISTICS:
LENGTH: 21 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-934-915-157

Query Match 100.0%; Score 49; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.032;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTIGIVCP1 9
DB 8 GTIGIVCP1 16

RESULT 35
US-09-980-177A-76
Sequence 76, Application US/09980177A
Patent No. 6838084
GENERAL INFORMATION:
APPLICANT: Jochmus, Ingrid
APPLICANT: Nieland, John
TITLE OF INVENTION: Cytotoxic T-cell Epitopes of the
TITLE OF INVENTION: Papilloma Virus L1-Protein and Use Thereof in Diagnosis and
TITLE OF INVENTION: Therapy

FILE REFERENCE: 50125/036001
CURRENT APPLICATION NUMBER: US/09/980,177A
CURRENT FILING DATE: 2001-11-29
PRIOR APPLICATION NUMBER: PCT/EP00/05006
PRIOR FILING DATE: 2000-05-31
PRIOR APPLICATION NUMBER: DE 19925199.1
PRIOR FILING DATE: 1999-06-01
NUMBER OF SEQ ID NOS: 77
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 76
LENGTH: 21
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-09-980-177A-76

Query Match 100.0%; Score 49; DB 2; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.032;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGIIVCPI 9
Db 8 GTLGIIVCPI 16

RESULT 36
US-08-075-541D-40
Sequence 40, Application US/08075541D
Patent No. 6183745
GENERAL INFORMATION:
APPLICANT: TINDLE, ROBERT
APPLICANT: FERNANDO, GERMAIN
APPLICANT: FRAZER, IAN
TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
NUMBER OF SEQUENCES: 56
CORRESPONDENCE ADDRESS:
ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
STREET: 1601 MARKET STREET, 36TH FLOOR
CITY: PHILADELPHIA
STATE: PENNSYLVANIA
COUNTRY: USA
ZIP: 19103-2398
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/075,541D
FILING DATE: 10-JUN-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: AU pk 3876
FILING DATE: 12-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: pct/au91/00575
FILING DATE: 12-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: NADEL, ALAN S
REGISTRATION NUMBER: 27,363
REFERENCE/DOCKET NUMBER: 8795-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-567-2020
TELEFAX: 215-567-2991
INFORMATION FOR SEQ ID NO: 40:
SEQUENCE CHARACTERISTICS:
LENGTH: 26 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-075-541D-40

Query Match 100.0%; Score 49; DB 2; Length 26;
Best Local Similarity 100.0%; Pred. No. 0.04;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGIIVCPI 9
Db 14 GTLGIIVCPI 22

RESULT 37
US-09-486-394-5
Sequence 5, Application US/09486394
Patent No. 6478749
GENERAL INFORMATION:
APPLICANT: Hopfl, Reinhard
TITLE OF INVENTION: Diagnostic Kit for Skin Tests, and Method
FILE REFERENCE: 032929-001
CURRENT APPLICATION NUMBER: US/09/486,394
CURRENT FILING DATE: 2000-06-20
PRIOR APPLICATION NUMBER: PCT/EP98/04773
PRIOR FILING DATE: 1998-07-30
PRIOR APPLICATION NUMBER: DE 197 37 409.3
PRIOR FILING DATE: 1997-08-27
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn version 3.1
SEQ ID NO 5
LENGTH: 28
TYPE: PRT
ORGANISM: Human papillomavirus type 16
FEATURE:
NAME/KEY: PEPTIDE
LOCATION: (1)..(28)
OTHER INFORMATION: E7 peptide.
US-09-486-394-5

Query Match 100.0%; Score 49; DB 2; Length 28;
Best Local Similarity 100.0%; Pred. No. 0.043;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGIIVCPI 9
Db 15 GTLGIIVCPI 23

RESULT 38
US-08-934-915-54
Sequence 54, Application US/08934915
Patent No. 5932412
GENERAL INFORMATION:
APPLICANT: DILLNER, JOAKIM
APPLICANT: DILLNER, LENA
APPLICANT: CHENG, HWEI-MING
TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
NUMBER OF SEQUENCES: 193
CORRESPONDENCE ADDRESS:
ADDRESSEE: MASON & ASSOCIATES, P.A.
STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
CITY: CLEARWATER
STATE: FLORIDA
COUNTRY: U.S.A.
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 3.0
SOFTWARE: Microsoft Word 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/934,915
FILING DATE: 22-SEP-1997
CLASSIFICATION: 435

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/949,836
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: LOUISE A. FOUTCH
REGISTRATION NUMBER: 37,133
REFERENCE/DOCKET NUMBER: 1946.6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 813-538-3800
TELEFAX: 813-538-3820
TELEX:
INFORMATION FOR SEQ ID NO: 54:
SEQUENCE CHARACTERISTICS:
LENGTH: 30 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-934-915-54

Query Match 100.0%; Score 49; DB 1; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.046;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGIVCPI 9
DB 17 GTLGIVCPI 25

RESULT 39
US-08-948-378A-6
Sequence 6, Application US/08948378A
Patent No. 6013258
GENERAL INFORMATION:
APPLICANT: Urban, Robert G.
APPLICANT: Chiciz, Roman M.
APPLICANT: Collins, Edward J.
APPLICANT: Hedley, Mary Lynn
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSER: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/948,378A
FILING DATE: 09-OCT-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/004001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-543-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 38 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: internal

US-08-948-378A-6
Query Match 100.0%; Score 49; DB 2; Length 38;
Best Local Similarity 100.0%; Pred. No. 0.058;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGIVCPI 9
DB 29 GTLGIVCPI 37

RESULT 40
US-09-169-425C-6
Sequence 6, Application US/09169425C
Patent No. 6183746
GENERAL INFORMATION:
APPLICANT: Urban, Robert G.
APPLICANT: Chiciz, Roman M.
APPLICANT: Collins, Edward J.
APPLICANT: Hedley, Mary Lynn
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSER: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/169,425C
FILING DATE: 09-OCT-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/061,657
FILING DATE: 09-OCT-1997
ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/004002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-543-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 38 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: internal
US-09-169-425C-6

Query Match 100.0%; Score 49; DB 2; Length 38;
Best Local Similarity 100.0%; Pred. No. 0.058;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGIVCPI 9
DB 29 GTLGIVCPI 37

RESULT 41
US-09-759-960-6
Sequence 6, Application US/09759960
Patent No. 6582704
GENERAL INFORMATION:
APPLICANT: Urban, Robert G.

APPLICANT: Chicx, Roman M.
APPLICANT: Colline, Edward J.
APPLICANT: Hedley, Mary Lynn
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
TITLE OF INVENTION: PROTEIN
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/759,960
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/169,425
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Frazer, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/004002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-543-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 38 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: internal
US-09-759-960-6

Query Match 100.0%; Score 49; DB 2; Length 38;
Best Local Similarity 100.0%; Pred. No. 0.058;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 GTLGIIVCP1 9
Db 29 GTLGIIVCP1 37

RESULT 42
US-08-406-248-6
Sequence 6, Application US/08406248
Patent No. 5736318
GENERAL INFORMATION:
APPLICANT: Munger, Karl
APPLICANT: Jones, D. Leanne
TITLE OF INVENTION: METHOD AND KIT FOR EVALUATING
TITLE OF INVENTION: TRANSFORMED CELLS
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Ann-Louise Kerner, Ph.D., Lappin & Kusner
STREET: 200 State Street
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/406,248
FILING DATE:
CLASSIFICATION: 436
ATTORNEY/AGENT INFORMATION:
NAME: McDaniel, Patricia A.
REGISTRATION NUMBER: 33,194
REFERENCE/DOCKET NUMBER: HAZ-011
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-330-1300
TELEFAX: 617-330-1311
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-406-248-6

Query Match 100.0%; Score 49; DB 1; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 GTLGIIVCP1 9
Db 85 GTLGIIVCP1 93

RESULT 43
US-08-075-541D-42
Sequence 42, Application US/08075541D
Patent No. 6183745
GENERAL INFORMATION:
APPLICANT: TINDLE, ROBERT
APPLICANT: FERNANDO, GERMAIN
APPLICANT: FRAZER, IAN
TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
NUMBER OF SEQUENCES: 56
CORRESPONDENCE ADDRESS:
ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
STREET: 1601 MARKET STREET, 36TH FLOOR
CITY: PHILADELPHIA
STATE: PENNSYLVANIA
COUNTRY: USA
ZIP: 19103-2398
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/075,541D
FILING DATE: 10-JUN-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: AU pk 3876
FILING DATE: 12-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: pcc/au91/00575
FILING DATE: 12-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: NADEL, ALAN S
REGISTRATION NUMBER: 27,363
REFERENCE/DOCKET NUMBER: 8795-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-567-2020
TELEFAX: 215-567-2991
INFORMATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear

MOLECULE TYPE: peptide
US-08-075-541D-42

Query Match 100.0%; Score 49; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTLGIVCPI 9
Db 85 GTLGIVCPI 93

RESULT 44
US-09-382-616A-1
Sequence 1, Application US/09382616A
Patent No. 6200746
GENERAL INFORMATION:
APPLICANT: Fisher, Christopher
APPLICANT: He, Wanxia
TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
FILE REFERENCE: 28341/5216
CURRENT APPLICATION NUMBER: US/09/382,616A
CURRENT FILING DATE: 1999-08-25
PRIOR APPLICATION NUMBER: 09/382,616
PRIOR FILING DATE: 1999-08-25
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1
LENGTH: 98
TYPE: PRT
ORGANISM: Papillomavirus sylvilagi
US-09-382-616A-1

Query Match 100.0%; Score 49; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTLGIVCPI 9
Db 85 GTLGIVCPI 93

RESULT 45
US-08-944-368A-4
Sequence 4, Application US/08944368A
Patent No. 6228368
GENERAL INFORMATION:
APPLICANT: Giesman, et al.
TITLE OF INVENTION: Papilloma Virus Capsomere Vaccine
TITLE OF INVENTION: Formulations and Methods of Use
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
ADDRESSEE: Borun
STREET: 233 South Wacker Drive, 6300 Sears Tower
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/944,368A
FILING DATE:
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Williams Jr., Joseph A.
REGISTRATION NUMBER: 38,659
REFERENCE/DOCKET NUMBER: 27013/34028
TELECOMMUNICATION INFORMATION:

TELEPHONE: 312-474-6300
TELEFAX: 312-474-0448
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-944-368A-4

Query Match 100.0%; Score 49; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTLGIVCPI 9
Db 85 GTLGIVCPI 93

RESULT 46
US-09-820-764-4
Sequence 4, Application US/09820764
Patent No. 6352696
GENERAL INFORMATION:
APPLICANT: BURGER, Alexander
APPLICANT: HALBER, Michael
TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
FORMULATIONS AND METHODS OF USE
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/820,764
FILING DATE: 30-Mar-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/026,896
FILING DATE: 20-FEB-1998
ATTORNEY/AGENT INFORMATION:
NAME: Sandercock, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-820-764-4

Query Match 100.0%; Score 49; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTLGIVCPI 9
Db 85 GTLGIVCPI 93

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RESULT 47
US-09-613-303-8
; Sequence 8, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/09/613,303
; CURRENT FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-09-613-303-8

Query Match          100.0%; Score 49; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGIVCPI 9
Db 85 GTLGIVCPI 93

RESULT 48
US-09-566-420-19
; Sequence 19, Application US/09566420
; Patent No. 6500641
; GENERAL INFORMATION:
; APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
; TITLE OF INVENTION: IMMUNE RESPONSE
; FILE REFERENCE: TBA
; CURRENT APPLICATION NUMBER: US/09/566,420
; CURRENT FILING DATE: 2000-05-05
; PRIOR APPLICATION NUMBER: 60/132,752
; PRIOR FILING DATE: 1999-05-06
; PRIOR APPLICATION NUMBER: 60/132,750
; PRIOR FILING DATE: 1999-05-06
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type E7
US-09-566-420-19

Query Match          100.0%; Score 49; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGIVCPI 9
Db 85 GTLGIVCPI 93

RESULT 49
US-09-986-118A-4
; Sequence 4, Application US/09986118A
; Patent No. 6562351
; GENERAL INFORMATION:
; APPLICANT: BURGER, Alexander
; APPLICANT: HALLER, Michael
; TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
```

```
FORMULATIONS AND METHODS OF USE
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY & LARDNER
; STREET: 3000 K Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/986,118A
; FILING DATE: 07-No. 6562351-2001
; CLASSIFICATION: <unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 09/026,896
; FILING DATE: <unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Sandercock, Colin G.
; REGISTRATION NUMBER: 31,298
; REFERENCE/DOCKET NUMBER: 37067/102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 672-5300
; TELEFAX: (202) 672-5399
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-986-118A-4

Query Match          100.0%; Score 49; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGIVCPI 9
Db 85 GTLGIVCPI 93

RESULT 50
US-09-728-466-1
; Sequence 1, Application US/09728466
; Patent No. 6641994
; GENERAL INFORMATION:
; APPLICANT: Fisher, Christopher
; APPLICANT: He, Manxia
; TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
; FILE REFERENCE: 28341/6216
; CURRENT APPLICATION NUMBER: US/09/728,466
; CURRENT FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: 09/382,616
; PRIOR FILING DATE: 1999-08-25
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Papillomavirus syviliagi
US-09-728-466-1

Query Match          100.0%; Score 49; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGIVCPI 9
Db 85 GTLGIVCPI 93
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Tue May 9 09:28:12 2006

us-08-170-344-19.ra1

Page 26

Db 85 GTIGIVCPI 93

Search completed: May 5, 2006, 05:36:27
Job time : 24.7 secs

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:29:07 ; Search time 56 Seconds
(without alignments)
67.151 Million cell updates/sec

Title: US-08-170-344-19
Perfect score: 49
Sequence: 1 GTIGIVCP1 9

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published_Applications_AA_Main:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*
- 2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
- 3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
- 4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*
- 5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*
- 6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	49	100.0	9	US-09-759-960-21	Sequence 21, Appl
2	49	100.0	9	US-09-891-823-50	Sequence 50, Appl
3	49	100.0	9	US-10-128-711-70	Sequence 70, Appl
4	49	100.0	9	US-10-365-908-50	Sequence 50, Appl
5	49	100.0	9	US-10-472-661-9	Sequence 9, Appl
6	49	100.0	9	US-10-777-053-327	Sequence 327, App
7	49	100.0	9	US-10-777-053-494	Sequence 494, App
8	49	100.0	9	US-10-837-217-327	Sequence 327, App
9	49	100.0	9	US-10-837-217-494	Sequence 494, App
10	49	100.0	9	US-10-603-062-21	Sequence 21, Appl
11	49	100.0	9	US-10-871-138-50	Sequence 50, Appl
12	49	100.0	9	US-10-751-845-104	Sequence 104, App
13	49	100.0	10	US-09-891-823-46	Sequence 46, Appl
14	49	100.0	10	US-09-888-721-8	Sequence 8, Appl
15	49	100.0	10	US-10-365-908-46	Sequence 46, Appl
16	49	100.0	10	US-10-668-400-10	Sequence 10, Appl
17	49	100.0	10	US-10-871-138-46	Sequence 46, Appl
18	49	100.0	10	US-10-484-063-18	Sequence 18, Appl
19	49	100.0	11	US-09-759-960-31	Sequence 31, Appl
20	49	100.0	11	US-09-759-960-33	Sequence 33, Appl
21	49	100.0	11	US-10-603-062-31	Sequence 31, Appl
22	49	100.0	11	US-10-603-062-33	Sequence 33, Appl
23	49	100.0	12	US-09-759-960-16	Sequence 16, Appl
24	49	100.0	12	US-09-909-460-108	Sequence 108, App
25	49	100.0	12	US-09-872-836-108	Sequence 108, App
26	49	100.0	12	US-10-603-062-16	Sequence 16, Appl
27	49	100.0	12	US-10-758-970-108	Sequence 108, App

28	49	100.0	12	US-10-751-845-62	Sequence 62, Appl
29	49	100.0	13	US-09-759-960-4	Sequence 4, Appl
30	49	100.0	13	US-09-759-960-19	Sequence 19, Appl
31	49	100.0	13	US-09-759-960-110	Sequence 110, App
32	49	100.0	13	US-09-909-460-110	Sequence 110, App
33	49	100.0	13	US-09-872-836-110	Sequence 3, Appl
34	49	100.0	13	US-10-603-062-3	Sequence 4, Appl
35	49	100.0	13	US-10-603-062-4	Sequence 19, Appl
36	49	100.0	13	US-10-603-062-19	Sequence 32, Appl
37	49	100.0	14	US-09-759-960-32	Sequence 32, Appl
38	49	100.0	14	US-10-603-062-32	Sequence 71, Appl
39	49	100.0	15	US-10-648-547-71	Sequence 84, Appl
40	49	100.0	15	US-10-648-547-84	Sequence 71, Appl
41	49	100.0	15	US-10-476-570-52	Sequence 52, Appl
42	49	100.0	15	US-10-306-541-71	Sequence 71, Appl
43	49	100.0	15	US-10-306-541-84	Sequence 84, Appl
44	49	100.0	16	US-09-759-960-25	Sequence 25, Appl
45	49	100.0	16	US-09-909-460-109	Sequence 109, App
46	49	100.0	16	US-09-872-836-109	Sequence 25, App
47	49	100.0	16	US-10-603-062-25	Sequence 109, App
48	49	100.0	16	US-10-758-970-109	Sequence 109, App
49	49	100.0	17	US-10-751-845-69	Sequence 69, Appl
50	49	100.0	17	US-10-476-570-58	Sequence 58, Appl
51	49	100.0	19	US-10-858-384-18	Sequence 18, Appl
52	49	100.0	20	US-10-484-063-19	Sequence 19, Appl
53	49	100.0	21	US-10-432-465-51	Sequence 51, Appl
54	49	100.0	21	US-10-476-570-18	Sequence 18, Appl
55	49	100.0	21	US-10-890-526-16	Sequence 76, Appl
56	49	100.0	38	US-09-759-960-6	Sequence 6, Appl
57	49	100.0	38	US-10-603-062-6	Sequence 6, Appl
58	49	100.0	98	US-09-728-466-1	Sequence 1, Appl
59	49	100.0	98	US-09-820-765-4	Sequence 4, Appl
60	49	100.0	98	US-09-824-017-4	Sequence 4, Appl
61	49	100.0	98	US-09-968-118A-4	Sequence 4, Appl
62	49	100.0	98	US-10-267-311-8	Sequence 8, Appl
63	49	100.0	98	US-10-177-390-8	Sequence 8, Appl
64	49	100.0	98	US-10-201-764-19	Sequence 19, Appl
65	49	100.0	98	US-10-392-113-29	Sequence 29, Appl
66	49	100.0	98	US-10-654-129-4	Sequence 4, Appl
67	49	100.0	98	US-10-681-410-19	Sequence 19, Appl
68	49	100.0	98	US-10-772-988-3	Sequence 3, Appl
69	49	100.0	98	US-10-479-541-5	Sequence 5, Appl
70	49	100.0	98	US-10-042-526A-4	Sequence 4, Appl
71	49	100.0	98	US-10-657-399-1	Sequence 1, Appl
72	49	100.0	98	US-10-858-384-12	Sequence 12, Appl
73	49	100.0	98	US-10-484-063-26	Sequence 26, Appl
74	49	100.0	98	US-10-343-448-5	Sequence 5, Appl
75	49	100.0	98	US-10-679-956-8	Sequence 8, Appl
76	49	100.0	98	US-10-367-057-17	Sequence 17, Appl
77	49	100.0	98	US-11-077-939-5	Sequence 5, Appl
78	49	100.0	99	US-10-115-440-7	Sequence 7, Appl
79	49	100.0	111	US-10-472-724-4	Sequence 4, Appl
80	49	100.0	117	US-10-751-845-126	Sequence 12, Appl
81	49	100.0	121	US-10-267-311-12	Sequence 12, Appl
82	49	100.0	121	US-10-679-966-12	Sequence 12, Appl
83	49	100.0	185	US-11-072-288-2	Sequence 2, Appl
84	49	100.0	185	US-10-267-311-35	Sequence 35, Appl
85	49	100.0	198	US-10-679-956-35	Sequence 35, Appl
86	49	100.0	220	US-10-000-903-1	Sequence 1, Appl
87	49	100.0	220	US-10-000-903-8	Sequence 8, Appl
88	49	100.0	220	US-10-899-771-1	Sequence 1, Appl
89	49	100.0	220	US-10-899-771-8	Sequence 8, Appl
90	49	100.0	226	US-10-751-845-157	Sequence 157, App
91	49	100.0	236	US-10-751-845-158	Sequence 158, App
92	49	100.0	237	US-10-000-903-12	Sequence 12, Appl
93	49	100.0	239	US-10-899-771-12	Sequence 12, Appl
94	49	100.0	261	US-10-751-845-160	Sequence 160, App
95	49	100.0	266	US-09-367-309A-1	Sequence 1, Appl
96	49	100.0	289	US-10-115-440-5	Sequence 5, Appl
97	49	100.0	295	US-10-267-311-33	Sequence 33, Appl
98	49	100.0	295	US-10-679-956-33	Sequence 33, Appl
99	49	100.0	324	US-10-267-311-25	Sequence 25, Appl
100	49	100.0	324	US-10-679-956-25	Sequence 25, Appl

101	49	100.0	334	4	US-10-472-724-10	Sequence 10, Appl	174	38	77.6	9	4	US-10-777-053-548	Sequence 548, App
102	49	100.0	371	4	US-10-000-903-6	Sequence 6, Appl1	175	38	77.6	9	4	US-10-837-217-548	Sequence 548, App
103	49	100.0	371	5	US-10-899-771-6	Sequence 6, Appl1	176	38	77.6	9	5	US-10-871-138-21	Sequence 21, Appl
104	49	100.0	390	4	US-10-000-903-14	Sequence 14, Appl1	177	38	77.6	9	5	US-10-751-845-100	Sequence 100, App
105	49	100.0	390	5	US-10-899-771-14	Sequence 14, Appl1	178	38	77.6	9	5	US-10-924-377-17	Sequence 17, Appl
106	49	100.0	431	4	US-10-267-770-7	Sequence 7, Appl1	179	38	77.6	10	5	US-10-751-845-107	Sequence 107, App
107	49	100.0	431	4	US-10-267-311-19	Sequence 19, Appl1	180	38	77.6	11	3	US-09-759-960-28	Sequence 28, Appl
108	49	100.0	493	5	US-10-679-956-19	Sequence 19, Appl1	181	38	77.6	11	5	US-10-603-062-28	Sequence 28, Appl
109	49	100.0	639	5	US-10-267-311-17	Sequence 17, Appl1	182	38	77.6	15	4	US-10-648-547-95	Sequence 95, Appl
110	49	100.0	639	5	US-10-679-956-11	Sequence 11, Appl1	183	38	77.6	15	4	US-10-476-570-51	Sequence 51, Appl
111	49	100.0	641	4	US-10-267-311-51	Sequence 51, Appl1	184	38	77.6	15	4	US-10-306-541-95	Sequence 95, Appl
112	49	100.0	641	5	US-10-679-956-51	Sequence 51, Appl1	185	38	77.6	79	4	US-10-289-762-1251	Sequence 1251, App
113	49	100.0	647	4	US-10-267-311-53	Sequence 53, Appl1	186	38	77.6	183	4	US-10-312-273-207	Sequence 207, App
114	49	100.0	647	5	US-10-679-956-53	Sequence 53, Appl1	187	38	77.6	185	4	US-10-425-115-314970	Sequence 314970, A
115	49	100.0	648	4	US-10-267-311-29	Sequence 29, Appl1	188	38	77.6	187	4	US-10-425-114-63068	Sequence 63068, A
116	49	100.0	648	5	US-10-679-956-29	Sequence 29, Appl1	189	38	77.6	550	4	US-10-424-599-157415	Sequence 157415, A
117	49	100.0	711	4	US-10-267-311-41	Sequence 41, Appl1	190	38	77.6	1139	5	US-10-476-026-4	Sequence 4, Appl1
118	49	100.0	711	5	US-10-679-956-41	Sequence 41, Appl1	191	38	77.6	1139	4	US-10-119-026-4	Sequence 4, Appl1
119	49	100.0	724	4	US-10-267-311-45	Sequence 45, Appl1	192	38	77.6	2703	6	US-11-097-143-7590	Sequence 7590, App
120	49	100.0	734	5	US-10-679-956-45	Sequence 45, Appl1	193	37	75.5	154	4	US-10-425-114-44122	Sequence 44122, A
121	49	100.0	805	4	US-10-367-095-9	Sequence 9, Appl1	194	37	75.5	154	5	US-10-450-763-54278	Sequence 54278, A
122	49	100.0	805	4	US-10-368-046-9	Sequence 9, Appl1	195	37	75.5	179	3	US-09-919-039-130	Sequence 130, App
123	49	100.0	805	4	US-10-367-367-9	Sequence 9, Appl1	196	37	75.5	179	4	US-10-335-009-10	Sequence 10, Appl
124	49	100.0	805	5	US-10-818-337-9	Sequence 9, Appl1	197	37	75.5	433	4	US-10-287-274-412	Sequence 412, App
125	45	91.8	9	5	US-10-924-377-18	Sequence 18, Appl1	198	37	75.5	433	4	US-10-282-122A-42701	Sequence 42701, A
126	45	91.8	11	4	US-10-472-661-7	Sequence 7, Appl1	199	37	75.5	463	5	US-09-915-181A-8	Sequence 8, Appl1
127	45	91.8	15	4	US-10-648-547-75	Sequence 75, Appl1	200	37	75.5	728	5	US-10-450-763-46363	Sequence 46363, A
128	45	91.8	15	4	US-10-306-541-75	Sequence 75, Appl1	201	37	75.5	893	6	US-11-097-141-16527	Sequence 16537, A
129	43	87.8	8	3	US-09-759-960-20	Sequence 20, Appl1	202	37	75.5	1010	4	US-10-369-499-6805	Sequence 6805, App
130	43	87.8	8	3	US-09-835-853-21	Sequence 21, Appl1	203	37	75.5	2317	4	US-10-190-115-26	Sequence 26, Appl
131	43	87.8	8	3	US-09-909-460-107	Sequence 107, App	204	37	75.5	2318	5	US-10-369-072-26	Sequence 26, Appl
132	43	87.8	8	3	US-09-872-836-107	Sequence 107, App	205	37	75.5	2318	5	US-10-631-467-1548	Sequence 1548, App
133	43	87.8	8	4	US-10-106-487-20	Sequence 20, Appl1	206	37	75.5	2221	4	US-10-356-625-2	Sequence 2, Appl1
134	43	87.8	8	4	US-10-133-210-276	Sequence 276, App	207	37	75.5	2221	4	US-10-408-765A-1634	Sequence 1634, App
135	43	87.8	8	5	US-10-758-970-107	Sequence 89, Appl1	208	37	75.5	2221	5	US-10-631-467-822	Sequence 822, App
136	43	87.8	8	4	US-10-388-337-20	Sequence 20, Appl1	209	36	73.5	8	3	US-09-759-960-26	Sequence 26, Appl
137	43	87.8	8	4	US-10-472-661-8	Sequence 8, Appl1	210	36	73.5	8	5	US-10-603-062-26	Sequence 26, App1
138	43	87.8	8	4	US-10-777-053-544	Sequence 544, App	211	36	73.5	92	4	US-10-425-115-206444	Sequence 206444, A
139	43	87.8	8	4	US-10-837-217-544	Sequence 544, App	212	36	73.5	192	4	US-10-425-115-363614	Sequence 363614, A
140	43	87.8	8	5	US-10-603-062-20	Sequence 20, Appl1	213	36	73.5	217	4	US-10-369-493-16842	Sequence 16842, A
141	43	87.8	8	5	US-10-758-970-107	Sequence 107, App	214	36	73.5	304	4	US-10-437-969-174473	Sequence 174473, A
142	43	87.8	8	5	US-10-751-845-61	Sequence 61, App	215	36	73.5	359	4	US-10-106-698-5926	Sequence 5926, App
143	43	87.8	8	5	US-10-776-521B-365	Sequence 365, App	216	36	73.5	365	4	US-10-767-701-40065	Sequence 40065, A
144	43	87.8	8	5	US-10-820-067A-876	Sequence 876, App	217	36	73.5	503	4	US-10-424-599-281804	Sequence 281804, A
145	43	87.8	9	3	US-09-759-960-2	Sequence 2, Appl1	218	36	73.5	563	4	US-10-149-310-236	Sequence 236, App
146	43	87.8	9	3	US-09-759-960-27	Sequence 27, Appl1	219	35.5	72.4	204	4	US-10-104-047-2253	Sequence 2253, App
147	43	87.8	9	3	US-09-891-823-103	Sequence 103, App	220	35.5	72.4	307	5	US-10-450-763-43033	Sequence 43033, A
148	43	87.8	9	3	US-09-909-460-111	Sequence 111, App	221	35.5	72.4	560	3	US-09-915-181A-5	Sequence 5, Appl1
149	43	87.8	9	4	US-09-872-836-115	Sequence 115, App	222	35.5	72.4	560	3	US-09-965-522-4	Sequence 4, Appl1
150	43	87.8	9	4	US-10-128-711-68	Sequence 68, Appl1	223	35.5	72.4	560	3	US-10-314-790-5	GENERAL INFORMA
151	43	87.8	9	4	US-10-365-908-103	Sequence 103, App	224	35.5	72.4	560	4	US-10-734-731-2	Sequence 2, Appl1
152	43	87.8	9	4	US-10-472-661-5	Sequence 5, Appl1	225	35.5	72.4	560	5	US-10-734-731-4	Sequence 4, Appl1
153	43	87.8	9	4	US-10-472-661-6	Sequence 6, Appl1	226	35.5	72.4	560	5	US-10-734-731-6	Sequence 6, Appl1
154	43	87.8	9	4	US-10-777-053-326	Sequence 326, App	227	35.5	72.4	560	5	US-10-807-500-6	Sequence 6, Appl1
155	43	87.8	9	4	US-10-777-053-490	Sequence 490, App	228	35.5	72.4	560	5	US-10-734-731-8	Sequence 8, Appl1
156	43	87.8	9	4	US-10-837-217-326	Sequence 326, App	229	35.5	72.4	560	5	US-10-807-500-2	Sequence 2, Appl1
157	43	87.8	9	4	US-10-837-217-490	Sequence 490, App	230	35.5	72.4	560	5	US-10-807-500-4	Sequence 4, Appl1
158	43	87.8	9	5	US-10-603-062-2	Sequence 2, Appl1	231	35.5	72.4	560	5	US-10-807-500-6	Sequence 6, Appl1
159	43	87.8	9	5	US-10-603-062-27	Sequence 27, Appl1	232	35.5	72.4	560	5	US-10-807-500-8	Sequence 8, Appl1
160	43	87.8	9	5	US-10-871-138-103	Sequence 103, App	233	35.5	72.4	560	5	US-10-877-818-4	Sequence 4, Appl1
161	43	87.8	9	5	US-10-751-845-102	Sequence 102, App	234	35.5	72.4	560	5	US-10-756-149-5598	Sequence 5598, App
162	43	87.8	10	3	US-09-891-823-99	Sequence 99, Appl1	235	35.5	72.4	578	3	US-09-740-041-4	Sequence 4, Appl1
163	43	87.8	10	4	US-10-365-908-99	Sequence 99, Appl1	236	35.5	72.4	578	4	US-10-389-967-4	Sequence 4, Appl1
164	43	87.8	10	5	US-10-871-138-99	Sequence 99, Appl1	237	35.5	72.4	582	3	US-09-915-181A-4	Sequence 4, Appl1
165	43	87.8	19	5	US-10-776-521B-376	Sequence 376, App	238	35.5	72.4	582	4	US-10-205-331-7	Sequence 7, Appl1
166	43	87.8	20	5	US-10-776-521B-377	Sequence 377, App	239	35.5	72.4	582	5	US-10-734-731-10	Sequence 10, Appl
167	43	87.8	98	5	US-10-367-057-12	Sequence 12, Appl1	240	35.5	72.4	582	5	US-10-734-731-12	Sequence 12, Appl
168	43	87.8	517	5	US-10-475-203A-14	Sequence 14, Appl1	241	35.5	72.4	582	5	US-10-734-731-14	Sequence 14, Appl
169	42	85.7	128	4	US-10-424-599-159372	Sequence 159372, A	242	35.5	72.4	582	5	US-10-807-500-10	Sequence 10, Appl
170	39	79.6	78	4	US-10-724-972A-6305	Sequence 6305, App	243	35.5	72.4	582	5	US-10-807-500-12	Sequence 12, Appl
171	39	79.6	329	5	US-10-450-763-40847	Sequence 40847, A	244	35.5	72.4	582	5	US-10-807-500-14	Sequence 14, Appl
172	38	77.6	9	3	US-09-891-823-21	Sequence 21, Appl1	245	35	71.4	46	4	US-10-437-963-145101	Sequence 145101, A
173	38	77.6	9	4	US-10-365-908-21	Sequence 21, Appl1	246	35	71.4	56	4	US-10-425-115-358261	Sequence 358261, A

247	35	71.4	58	5	US-10-450-763-37005	Sequence 37005, A	320	34	69.4	261	4	US-10-425-114-54690	Sequence 54690, A
248	35	71.4	88	4	US-10-424-599-178446	Sequence 178446, A	321	34	69.4	261	4	US-10-425-114-54692	Sequence 54692, A
249	35	71.4	93	4	US-10-425-115-237139	Sequence 237139, A	322	34	69.4	261	4	US-10-425-114-54694	Sequence 54694, A
250	35	71.4	95	4	US-10-425-115-250602	Sequence 250602, A	323	34	69.4	261	4	US-10-425-114-54696	Sequence 54696, A
251	35	71.4	116	4	US-10-424-599-202136	Sequence 202136, A	324	34	69.4	261	4	US-10-425-114-54697	Sequence 54697, A
252	35	71.4	133	4	US-10-767-701-45139	Sequence 45139, A	325	34	69.4	261	4	US-10-425-114-54699	Sequence 54699, A
253	35	71.4	143	4	US-10-424-599-153300	Sequence 153300, A	326	34	69.4	261	4	US-10-425-114-71947	Sequence 71947, A
254	35	71.4	163	3	US-09-738-626-4816	Sequence 4816, Ap	327	34	69.4	261	4	US-10-425-114-71990	Sequence 71990, A
255	35	71.4	222	3	US-09-837-306-107	Sequence 307, App	328	34	69.4	212	5	US-10-450-763-36889	Sequence 36889, A
256	35	71.4	222	5	US-10-501-282-3708	Sequence 2708, Ap	329	34	69.4	226	4	US-10-153-668-57	Sequence 57, App1
257	35	71.4	227	5	US-10-424-599-164527	Sequence 164527, A	330	34	69.4	435	4	US-10-369-493-1428	Sequence 1428, Ap
258	35	71.4	227	5	US-10-732-923-15687	Sequence 15687, A	331	34	69.4	473	4	US-10-282-122A-53199	Sequence 53199, A
259	35	71.4	228	4	US-10-767-701-41338	Sequence 41338, A	332	34	69.4	473	4	US-10-282-122A-43311	Sequence 43311, A
260	35	71.4	233	4	US-10-045-674-485	Sequence 485, App	333	34	69.4	474	5	US-10-425-114-43311	Sequence 43311, A
261	35	71.4	247	4	US-10-424-599-153301	Sequence 153301, A	334	34	69.4	554	4	US-10-450-763-31563	Sequence 31563, A
262	35	71.4	249	5	US-10-732-923-15585	Sequence 15585, A	335	34	69.4	570	3	US-10-450-763-31563	Sequence 31563, A
263	35	71.4	249	5	US-10-732-923-15658	Sequence 15658, A	336	34	69.4	570	4	US-10-616-263-30	Sequence 30, App1
264	35	71.4	250	4	US-10-424-599-164528	Sequence 164528, A	337	34	69.4	570	4	US-10-408-765A-1071	Sequence 1071, App1
265	35	71.4	253	5	US-10-732-923-15686	Sequence 15686, A	338	34	69.4	572	4	US-10-264-049-2907	Sequence 2907, Ap
266	35	71.4	272	5	US-10-501-282-3710	Sequence 2710, Ap	339	34	69.4	602	4	US-10-425-115-222274	Sequence 222274, A
267	35	71.4	441	4	US-10-424-599-153301	Sequence 153301, A	340	34	69.4	602	4	US-10-282-122A-43041	Sequence 43041, A
268	35	71.4	442	4	US-10-437-963-168008	Sequence 168008, A	341	34	69.4	612	4	US-10-282-122A-72058	Sequence 72058, A
269	35	71.4	480	5	US-10-450-763-55735	Sequence 55735, A	342	34	69.4	718	4	US-11-097-143-2016	Sequence 12335, A
270	35	71.4	483	4	US-10-369-493-8588	Sequence 8588, Ap	343	34	69.4	756	6	US-10-437-963-132395	Sequence 2016, Ap
271	35	71.4	494	4	US-10-389-566-447	Sequence 274530, A	344	34	69.4	806	4	US-10-764-425-189	Sequence 45616, A
272	35	71.4	515	4	US-10-389-566-447	Sequence 447, App	345	34	69.4	927	5	US-10-450-763-53579	Sequence 53579, A
273	35	71.4	539	4	US-10-425-114-53259	Sequence 53259, A	346	34	69.4	1033	5	US-10-369-493-1495	Sequence 1495, Ap
274	35	71.4	557	4	US-10-425-115-229370	Sequence 229370, A	347	34	69.4	1120	4	US-10-287-226-300	Sequence 300, App
275	35	71.4	557	4	US-10-425-115-229375	Sequence 229375, A	348	34	68.4	566	3	US-09-740-041-2	Sequence 2, App1
276	35	71.4	592	4	US-10-425-115-191464	Sequence 191464, A	349	33.5	68.4	589	4	US-10-389-967-2	Sequence 28, App1
277	35	71.4	593	4	US-10-437-963-118257	Sequence 118257, A	350	33.5	68.4	589	4	US-10-489-9731-28	Sequence 46, App1
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552	32	65.3	326	4	US-10-292-798-442	Sequence 442, App
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577	32	65.3	448	4	US-10-702-777-5	Sequence 5, Appl
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655	32	65.3	769	3	US-09-949-039-69	Sequence 30, Appl
656	32	65.3	769	5	US-10-470-987-30	Sequence 10, Appl
657	32	65.3	769	5	US-10-781-989-10	Sequence 3, Appl
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689	31	63.3	80	4	US-10-073-961-211	Sequence 211, App	762	31	63.3	331	4	US-10-240-998-2	Sequence 2, Appl1
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746	31	63.3	234	3	US-09-871-874-20	Sequence 20, Appl	819	31	63.3	486	5	US-10-739-930-9552	Sequence 9552, Ap
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841	31	63.3	527	4	US-10-451-467A-482	Sequence 482, App	914	30	61.2	13	US-10-838-289-238	Sequence 238, App	
842	31	63.3	533	6	US-11-097-143-7398	Sequence 7398, App	915	30	61.2	13	US-10-607-595-174	Sequence 174, App	
843	31	63.3	533	6	US-11-097-143-27849	Sequence 27849, A	916	30	61.2	13	US-10-607-595-183	Sequence 183, App	
844	31	63.3	533	6	US-11-097-143-27852	Sequence 27852, A	917	30	61.2	13	US-10-846-079-61	Sequence 61, App1	
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846	31	63.3	543	4	US-10-425-114-38193	Sequence 38193, A	919	30	61.2	14	US-10-044-844-60	Sequence 60, App1	
847	31	63.3	545	4	US-10-753-526-23	Sequence 23, App1	920	30	61.2	14	US-10-846-079-57	Sequence 57, App1	
848	31	63.3	545	6	US-11-052-106-8	Sequence 8, App1	921	30	61.2	14	US-10-846-079-60	Sequence 60, App1	
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850	31	63.3	546	4	US-10-451-467A-552	Sequence 552, App	923	30	61.2	15	US-09-828-708-62	Sequence 62, App1	
851	31	63.3	550	4	US-10-451-467A-476	Sequence 476, App	924	30	61.2	23	US-10-630-009-62	Sequence 62, App1	
852	31	63.3	550	4	US-10-451-467A-580	Sequence 580, App	925	30	61.2	23	US-10-437-963-158643	Sequence 158643,	
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856	31	63.3	564	4	US-10-437-963-177423	Sequence 177423,	929	30	61.2	44	US-10-724-972A-7189	Sequence 7189, App	
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877	31	63.3	863	4	US-10-437-963-188081	Sequence 188081, App	950	30	61.2	80	US-10-425-115-303208	Sequence 303208,	
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879	31	63.3	890	4	US-10-437-963-118530	Sequence 118530, A	952	30	61.2	82	US-10-424-599-202816	Sequence 202816,	
880	31	63.3	900	4	US-10-282-122A-51950	Sequence 51950, A	953	30	61.2	87	US-10-424-599-255441	Sequence 255441,	
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882	31	63.3	986	4	US-10-437-963-203873	Sequence 203873,	955	30	61.2	89	US-10-425-115-236186	Sequence 236186,	
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886	31	63.3	1059	4	US-10-437-963-150232	Sequence 150232,	959	30	61.2	93	US-10-437-963-105072	Sequence 105072,	
887	31	63.3	1097	5	US-10-450-763-56014	Sequence 56014, A	960	30	61.2	94	US-10-424-599-186635	Sequence 186635,	
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889	31	63.3	1238	4	US-10-437-963-128285	Sequence 128285,	962	30	61.2	95	US-10-363-204-91	Sequence 91, App1	
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892	31	63.3	1631	5	US-10-450-763-52840	Sequence 52840, A	965	30	61.2	97	US-10-424-599-200992	Sequence 200992,	
893	31	63.3	1770	5	US-10-732-923-117002	Sequence 117002, A	966	30	61.2	97	US-10-437-963-120036	Sequence 120364,	
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901	31	63.3	3460	5	US-10-723-860-3739	Sequence 3739, App	974	30	61.2	102	US-10-425-115-328165	Sequence 328165,	
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991 30 61.2 114 5 US-10-630-009-13 Sequence 13, App1
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996 30 61.2 123 4 US-10-479-670-79 Sequence 79, App1
997 30 61.2 124 4 US-10-424-599-263929 Sequence 263929,
998 30 61.2 125 4 US-10-479-670-78 Sequence 78, App1
999 30 61.2 126 4 US-10-425-115-225721 Sequence 225721,
1000 30 61.2 127 3 US-09-764-847-717 Sequence 717, App

ALIGNMENTS

RESULT 1
US-09-759-960-21
; Sequence 21, Application US/09759960
; Patent No. US20010006639A1
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; APPLICANT: Collins, Edward J.
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
; TITLE OF INVENTION: PROTEIN
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/759,960
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/169,425
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Frazer, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 08191/004002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-543-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide

US-09-759-960-21

Query Match 100.0%; Score 49; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTIGIVCP1 9
|||||
Db 1 GTIGIVCP1 9

RESULT 2

US-09-891-823-50
; Sequence 50, Application US/09891823
; Publication No. US20020110566A1
; GENERAL INFORMATION:
; APPLICANT: Neeffe, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/09/891,823
; CURRENT FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 50
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-09-891-823-50

Query Match 100.0%; Score 49; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTIGIVCP1 9
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Db 1 GTIGIVCP1 9

RESULT 3
US-10-128-711-70
; Sequence 70, Application US/10128711
; Publication No. US20030099634A1
; GENERAL INFORMATION:
; APPLICANT: VITTELLO, Maria A.
; CHESTNUT, Robert W.
; SETTE, Alessandro D.
; CELIS, Steban
; GRAY, Howard

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ELICITING
NUMBER OF SEQUENCES: 153
CORRESPONDENCE ADDRESSES:
ADDRESSER: Townsend and Townsend Hourie and Crew
STREET: Steuart Street Tower, One Market Plaza
CITY: San Francisco
STATE: California
COUNTRY: US
ZIP: 94105-1493
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/128,711
FILING DATE: 22-Apr-2002
CLASSIFICATION: <Unknown>

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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/197,484
; FILING DATE: 16-FEB-1994
; APPLICATION NUMBER: US 07/935,811
; FILING DATE: 26-AUG-1992
; APPLICATION NUMBER: US 07/874,491
; FILING DATE: 27-APR-1992
; APPLICATION NUMBER: US 07/827,682
; FILING DATE: 29-JAN-1992
; APPLICATION NUMBER: US 07/749,568
; FILING DATE: 26-AUG-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Parmelee, Steven W.
; REGISTRATION NUMBER: 31,990
; REFERENCE/DOCKET NUMBER: 14137-26-4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 467-9600
; TELEFAX: (206) 623-6793
; INFORMATION FOR SEQ ID NO: 70:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 70:
US-10-128-711-70

Query Match      100.0%; Score 49; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db      1 GTLGIVCP1 9

RESULT 4
US-10-365-908-50
; Sequence 50, Application US/10365908
; Publication No. US20030170268A1
; GENERAL INFORMATION:
; APPLICANT: Neefe, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/10/365,908
; PRIOR FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US/09/891,823
; PRIOR FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 50
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-10-365-908-50

Query Match      100.0%; Score 49; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 GTLGIVCP1 9
Db      1 GTLGIVCP1 9

RESULT 5
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US-10-472-661-9
; Sequence 9, Application US/10472661
; Publication No. US20040106551A1
; GENERAL INFORMATION:
; APPLICANT: Khleif, Samir N.
; APPLICANT: Berzofsky, Jay A.
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS IMMUNOREACTIVE
; FILE REFERENCE: 14014.040602
; CURRENT APPLICATION NUMBER: US/10/472,661
; PRIOR FILING DATE: 2003-09-22
; PRIOR APPLICATION NUMBER: PCT/US02/09261
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: 60/278,520
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence; note =
US-10-472-661-9

Query Match      100.0%; Score 49; DB 4; Length 9;
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Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 GTLGIVCP1 9
Db      1 GTLGIVCP1 9

RESULT 6
US-10-777-053-327
; Sequence 327, Application US/10777053
; Publication No. US20040132088A1
; GENERAL INFORMATION:
; APPLICANT: Simard, John J. L.
; APPLICANT: Diamond, David C.
; APPLICANT: Qiu, Zhiyong
; APPLICANT: Lei, Xiang-Dong
; TITLE OF INVENTION: EXPRESSION VECTORS ENCODING EPITOPES OF
; FILE REFERENCE: MANNK.022C1
; CURRENT APPLICATION NUMBER: US/10/777,053
; PRIOR FILING DATE: 2004-02-10
; PRIOR APPLICATION NUMBER: 10/292,413
; PRIOR FILING DATE: 2002-11-07
; PRIOR APPLICATION NUMBER: 60/336,968
; PRIOR FILING DATE: 2001-11-07
; NUMBER OF SEQ ID NOS: 979
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 327
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papillomavirus 16
US-10-777-053-327

Query Match      100.0%; Score 49; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 GTLGIVCP1 9
Db      1 GTLGIVCP1 9

RESULT 7
US-10-777-053-494
; Sequence 494, Application US/10777053
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/ Publication No. US20040132086A1
/ GENERAL INFORMATION:
/ APPLICANT: Simard, John J. L.
/ APPLICANT: Diamond, David C.
/ APPLICANT: Qiu, Zhiyong
/ APPLICANT: Lei, Xiang-Dong
/ TITLE OF INVENTION: EXPRESSION VECTORS ENCODING EPITOPES OF
/ TITLE OF INVENTION: TARGET-ASSOCIATED ANTIGENS AND METHODS FOR THEIR DESIGN
/ FILE REFERENCE: MAN/K.022C1
/ CURRENT APPLICATION NUMBER: US/10/777,053
/ CURRENT FILING DATE: 2004-02-10
/ PRIOR APPLICATION NUMBER: 10/292,413
/ PRIOR FILING DATE: 2002-11-07
/ PRIOR APPLICATION NUMBER: 60/336,968
/ PRIOR FILING DATE: 2001-11-07
/ NUMBER OF SEQ ID NOS: 979
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 494
/ LENGTH: 9
/ TYPE: PRT
/ ORGANISM: Human Papillomavirus
US-10-777-053-494

Query Match          100.0%; Score 49; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGIVCPI 9
Db 1 GTLGIVCPI 9

RESULT 8
US-10-837-217-327
/ Sequence 327, Application US/10837217
/ Publication No. US20040203051A1
/ GENERAL INFORMATION:
/ APPLICANT: Simard, John J. L.
/ APPLICANT: Diamond, David C.
/ APPLICANT: Qiu, Zhiyong
/ APPLICANT: Lei, Xiang-Dong
/ TITLE OF INVENTION: EXPRESSION VECTORS ENCODING EPITOPES OF
/ TITLE OF INVENTION: TARGET-ASSOCIATED ANTIGENS AND METHODS FOR THEIR DESIGN
/ FILE REFERENCE: MAN/K.022C2
/ CURRENT APPLICATION NUMBER: US/10/837,217
/ CURRENT FILING DATE: 2004-04-30
/ PRIOR APPLICATION NUMBER: 10/292,413
/ PRIOR FILING DATE: 2002-11-07
/ PRIOR APPLICATION NUMBER: 60/336,968
/ PRIOR FILING DATE: 2001-11-07
/ NUMBER OF SEQ ID NOS: 979
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 327
/ LENGTH: 9
/ TYPE: PRT
/ ORGANISM: Human Papillomavirus
US-10-837-217-327

Query Match          100.0%; Score 49; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGIVCPI 9
Db 1 GTLGIVCPI 9

RESULT 9
US-10-837-217-494
/ Sequence 494, Application US/10837217
/ Publication No. US20040203051A1
/ GENERAL INFORMATION:
/ APPLICANT: Simard, John J. L.
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```
/ APPLICANT: Diamond, David C.
/ APPLICANT: Qiu, Zhiyong
/ APPLICANT: Lei, Xiang-Dong
/ TITLE OF INVENTION: EXPRESSION VECTORS ENCODING EPITOPES OF
/ TITLE OF INVENTION: TARGET-ASSOCIATED ANTIGENS AND METHODS FOR THEIR DESIGN
/ FILE REFERENCE: MAN/K.022C2
/ CURRENT APPLICATION NUMBER: US/10/837,217
/ CURRENT FILING DATE: 2004-04-30
/ PRIOR APPLICATION NUMBER: 10/292,413
/ PRIOR FILING DATE: 2002-11-07
/ PRIOR APPLICATION NUMBER: 60/336,968
/ PRIOR FILING DATE: 2001-11-07
/ NUMBER OF SEQ ID NOS: 979
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 494
/ LENGTH: 9
/ TYPE: PRT
/ ORGANISM: Human Papillomavirus
US-10-837-217-494

Query Match          100.0%; Score 49; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGIVCPI 9
Db 1 GTLGIVCPI 9

RESULT 10
US-10-603-062-21
/ Sequence 21, Application US/10603062
/ Publication No. US20040229809A1
/ GENERAL INFORMATION:
/ APPLICANT: Urban, Robert G.
/ APPLICANT: Chiciz, Roman M.
/ APPLICANT: Hedley, Mary Lynn
/ APPLICANT: Collins, Edward J.
/ TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
/ PROTEIN
/ NUMBER OF SEQUENCES: 33
/ CORRESPONDENCE ADDRESS:
/ ADDRESSER: Fish & Richardson, P.C.
/ STREET: 225 Franklin Street
/ CITY: Boston
/ STATE: MA
/ COUNTRY: US
/ ZIP: 02110-2804
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette
/ COMPUTER: IBM Compatible
/ OPERATING SYSTEM: Windows95
/ SOFTWARE: FastSeq for Windows Version 2.0
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/10/603,062
/ FILING DATE: 24-Jun-2003
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US/09/169,425C
/ FILING DATE: 09-OCT-1998
/ APPLICATION NUMBER: 60/061,657
/ FILING DATE: 09-OCT-1997
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Fraser, Janis K.
/ REGISTRATION NUMBER: 34,819
/ REFERENCE/DOCKET NUMBER: 08191/004002
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 617-542-5070
/ TELEFAX: 617-543-8906
/ TELEX: 200154
/ INFORMATION FOR SEQ ID NO: 21:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 9 amino acids
/ TYPE: amino acid
```


TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 21:
US-10-603-062-21

Query Match 100.0%; Score 49; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGVCP1 9
DB 1 GTLGVCP1 9

RESULT 11
US-10-871-138-50
Sequence 50, Application US/10871138
Publication No. US20040235741A1
GENERAL INFORMATION:
APPLICANT: Neefe, John R.
APPLICANT: Boux, Leslie J.
APPLICANT: Winnett, Mark T.
APPLICANT: Goldstone, Stephen E.
TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
FILE REFERENCE: 12071-003001
CURRENT APPLICATION NUMBER: US/10/871,138
CURRENT FILING DATE: 2004-06-18
PRIOR APPLICATION NUMBER: US/09/891,823
PRIOR FILING DATE: 2001-06-26
PRIOR APPLICATION NUMBER: US 60/214,202
PRIOR FILING DATE: 2000-06-26
NUMBER OF SEQ ID NOS: 140
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 50
LENGTH: 9
TYPE: PRT
ORGANISM: Human papilloma virus
US-10-871-138-50

Query Match 100.0%; Score 49; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGVCP1 9
DB 1 GTLGVCP1 9

RESULT 12
US-10-751-845-104
Sequence 104, Application US/10751845
Publication No. US20050100928A1
GENERAL INFORMATION:
APPLICANT: Hedley, Mary Lynne
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
FILE REFERENCE: 08191-013001
CURRENT APPLICATION NUMBER: US/10/751,845
CURRENT FILING DATE: 2004-01-05
PRIOR APPLICATION NUMBER: US/09/664,225
PRIOR FILING DATE: 2000-08-18
PRIOR APPLICATION NUMBER: US 60/169,846
PRIOR FILING DATE: 1999-12-09
PRIOR APPLICATION NUMBER: US 60/154,665
PRIOR FILING DATE: 1999-09-16
NUMBER OF SEQ ID NOS: 163
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 104
LENGTH: 9
TYPE: PRT
ORGANISM: Human Papilloma virus

US-10-751-845-104

Query Match 100.0%; Score 49; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGVCP1 9
DB 1 GTLGVCP1 9

RESULT 13
US-09-891-823-46
Sequence 46, Application US/09891823
Publication No. US20020110566A1
GENERAL INFORMATION:
APPLICANT: Neefe, John R.
APPLICANT: Boux, Leslie J.
APPLICANT: Winnett, Mark T.
APPLICANT: Goldstone, Stephen E.
TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
FILE REFERENCE: 12071-003001
CURRENT APPLICATION NUMBER: US/09/891,823
CURRENT FILING DATE: 2001-10-19
PRIOR APPLICATION NUMBER: US 60/214,202
PRIOR FILING DATE: 2000-06-26
NUMBER OF SEQ ID NOS: 140
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 46
LENGTH: 10
TYPE: PRT
ORGANISM: Human papilloma virus
US-09-891-823-46

Query Match 100.0%; Score 49; DB 3; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.039;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGVCP1 9
DB 2 GTLGVCP1 10

RESULT 14
US-09-888-721-8
Sequence 8, Application US/09888721
Patent No. US20020132990A1
GENERAL INFORMATION:
APPLICANT: Huston, James S.
APPLICANT: Wils, Pierre
APPLICANT: Zhu, Quan
APPLICANT: Laurent, Olivier
APPLICANT: Marasco, Wayne A.
APPLICANT: Scherman, Daniel
TITLE OF INVENTION: BIOENGINEERED VEHICLES FOR TARGETED NUCLEIC ACID
FILE REFERENCE: 23611-A USA
CURRENT APPLICATION NUMBER: US/09/888,721
CURRENT FILING DATE: 2001-06-25
PRIOR APPLICATION NUMBER: 60/213,653
PRIOR FILING DATE: 2000-06-23
NUMBER OF SEQ ID NOS: 45
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 8
LENGTH: 10
TYPE: PRT
ORGANISM: Human papillomavirus
US-09-888-721-8

Query Match 100.0%; Score 49; DB 3; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.039;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTLGIVCPI 9
Db 1 GTLGIVCPI 9

RESULT 15
US-10-365-908-46
; Sequence 46, Application US/10365908
; Publication No. US20030170268A1
; GENERAL INFORMATION:
; APPLICANT: Neefe, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/10/365,908
; CURRENT FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US/09/891,823
; PRIOR FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 46
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-10-365-908-46

Query Match 100.0%; Score 49; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.039;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTLGIVCPI 9
Db 2 GTLGIVCPI 10

RESULT 16
US-10-668-400-10
; Sequence 10, Application US/10668400
; Publication No. US20040058859A1
; GENERAL INFORMATION:
; APPLICANT: Bay, Sylvie
; APPLICANT: Cantacuzene, Daniele
; APPLICANT: Leclerc, Claude
; APPLICANT: Lo-Man, Richard
; TITLE OF INVENTION: MULTIPLE ANTIGEN GLYCOPOLYPEPTIDE CARBOHYDRATE,
; FILE REFERENCE: 102.166A-1
; CURRENT APPLICATION NUMBER: US/10/668,400
; CURRENT FILING DATE: 2003-09-23
; PRIOR APPLICATION NUMBER: US 09/049,847
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: US 60/041,726
; PRIOR FILING DATE: 1997-03-27
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 10
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
; NAME/KEY: MISC_FEATURE
; OTHER INFORMATION: HPV16 E7 PEPTIDE
US-10-668-400-10

Query Match 100.0%; Score 49; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.039;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTLGIVCPI 9
Db 1 GTLGIVCPI 9

RESULT 17
US-10-871-138-46
; Sequence 46, Application US/10871138
; Publication No. US20040235741A1
; GENERAL INFORMATION:
; APPLICANT: Neefe, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/10/871,138
; CURRENT FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: US/09/891,823
; PRIOR FILING DATE: 2001-06-26
; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 46
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-10-871-138-46

Query Match 100.0%; Score 49; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.039;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTLGIVCPI 9
Db 2 GTLGIVCPI 10

RESULT 18
US-10-484-063-18
; Sequence 18, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLEMO
; APPLICANT: ROLLEN, MICHELLE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-18

Query Match 100.0%; Score 49; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.039;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 19
US-09-759-960-31
; Sequence 31, Application US/09759960
; Patent No. US2001000639A1
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.
; APPLICANT: Chiciz, Roman M.
; APPLICANT: Collins, Edward J.
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/759,960
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/169,425
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Frazer, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 08191/004002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-543-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 31:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: Other
; LOCATION: 1...1
; OTHER INFORMATION: where Xaa at position 1 is Met, Ala, Ser,
; OTHER INFORMATION: Arg, Lys, Gly, Gln, Asp, or Glu
; US-09-759-960-31
Query Match 100.0%; Score 49; DB 3; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.043;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GTLGIIVCP1 9
DB 2 GTLGIIVCP1 10

RESULT 20
US-09-759-960-33
; Sequence 33, Application US/09759960
; Patent No. US2001000639A1
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.
; APPLICANT: Chiciz, Roman M.
; APPLICANT: Collins, Edward J.
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/603,062
; FILING DATE: 24-Jun-2003
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/169,425C

NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/759,960
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/169,425
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Frazer, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/004002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-543-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 33:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-759-960-33
Query Match 100.0%; Score 49; DB 3; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.043;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GTLGIIVCP1 9
DB 2 GTLGIIVCP1 10

RESULT 21
US-10-603-062-31
; Sequence 31, Application US/10603062
; Publication No. US20040229809A1
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.
; APPLICANT: Chiciz, Roman M.
; APPLICANT: Collins, Edward J.
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/603,062
; FILING DATE: 24-Jun-2003
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/169,425C

TELEX: 200154
FILING DATE: 09-OCT-1998
APPLICATION NUMBER: 60/061,657
FILING DATE: 09-OCT-1997
ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/004002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-543-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 31:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: Other
LOCATION: 1...1
OTHER INFORMATION: where Xaa at position 1 is Met, Ala, Ser,
Arg, Lys, Gly, Gln, Asp, or Glu
SEQUENCE DESCRIPTION: SEQ ID NO: 31:
US-10-603-062-31

Query Match 100.0%; Score 49; DB 5; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.043;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGIVCPI 9
Db 2 GTLGIVCPI 10

RESULT 22
US-10-603-062-33
Sequence 33, Application US/10603062
Publication No. US2004022809A1
GENERAL INFORMATION:
APPLICANT: Urban, Robert G.
Chicz, Roman M.
Collins, Edward J.
Hedley, Mary Lynn
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
PROTEIN
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/603,062
FILING DATE: 24-Jun-2003
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/169,425C
FILING DATE: 09-OCT-1998
APPLICATION NUMBER: 60/061,657
FILING DATE: 09-OCT-1997
ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/004002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-543-8906

TELEX: 200154
INFORMATION FOR SEQ ID NO: 33:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 33:
US-10-603-062-33

Query Match 100.0%; Score 49; DB 5; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.047;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGIVCPI 9
Db 2 GTLGIVCPI 10

RESULT 23
US-09-759-960-16
Sequence 16, Application US/09759960
Patent No. US20010006639A1
GENERAL INFORMATION:
APPLICANT: Urban, Robert G.
Chicz, Roman M.
Collins, Edward J.
APPLICANT: Hedley, Mary Lynn
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/759,960
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/169,425
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/004002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-543-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-759-960-16

Query Match 100.0%; Score 49; DB 3; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.047;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGIVCPI 9
Db 3 GTLGIVCPI 11

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RESULT 24
US-09-909-460-108
; Sequence 108, Application US/09909460
; Publication No. US20020182258A1
; GENERAL INFORMATION:
; APPLICANT: Lunsford, Lynn B.
; APPLICANT: Putnam, David
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: MICROPARTICLES FOR DELIVERY OF NUCLEIC
; FILE REFERENCE: 08191/014001
; CURRENT APPLICATION NUMBER: US/09/909,460
; PRIOR FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US/09/321,346
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-05-27
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 108
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-09-909-460-108

Query Match      100.0%; Score 49; DB 3; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.047;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTTGIVCP1 9
Db 4 GTTGIVCP1 12

RESULT 25
US-09-872-836-108
; Sequence 108, Application US/09872836
; Publication No. US20040142475A1
; GENERAL INFORMATION:
; APPLICANT: Barman, Shikha P.
; APPLICANT: McKeever, Una
; APPLICANT: Hedley, Mary Lynne
; TITLE OF INVENTION: DELIVERY SYSTEMS FOR BIOACTIVE AGENTS
; FILE REFERENCE: 08191-018001
; CURRENT APPLICATION NUMBER: US/09/872,836
; PRIOR FILING DATE: 2001-06-01
; PRIOR APPLICATION NUMBER: US 60/208,830
; PRIOR FILING DATE: 2000-06-02
; NUMBER OF SEQ ID NOS: 120
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 108
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-872-836-108

Query Match      100.0%; Score 49; DB 3; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.047;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTTGIVCP1 9
Db 4 GTTGIVCP1 12

RESULT 26
US-10-603-062-16
; Sequence 16, Application US/10603062
; Publication No. US20040229809A1
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; APPLICANT: Collins, Edward J.
; APPLICANT: Hedley, Mary Lynn
```

```
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
; PROTEIN
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: #window95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/603,062
; FILING DATE: 24-Jun-2003
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/169,425C
; FILING DATE: 09-OCT-1998
; APPLICATION NUMBER: 60/061,657
; FILING DATE: 09-OCT-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 08191/004002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-543-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 16:
US-10-603-062-16

Query Match      100.0%; Score 49; DB 5; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.047;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTTGIVCP1 9
Db 3 GTTGIVCP1 11

RESULT 27
US-10-758-970-108
; Sequence 108, Application US/10758970
; Publication No. US20050037086A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Hsu, Yung-Yueh
; APPLICANT: Tyo, Michael
; TITLE OF INVENTION: CONTINUOUS-FLOW METHOD FOR PREPARING MICROPARTICLES
; FILE REFERENCE: 08191-012001
; CURRENT APPLICATION NUMBER: US/10/758,970
; PRIOR FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: US/09/715,708A
; PRIOR FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: US 60/166,516
; PRIOR FILING DATE: 1999-11-19
; NUMBER OF SEQ ID NOS: 109
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 108
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-10-758-970-108
```

Query Match 100.0%; Score 49; DB 5; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.047;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTIGIVCPI 9
Db 4 GTIGIVCPI 12

RESULT 28

US-10-751-845-62
Sequence 62, Application US/10751845
Publication No. US20050100928A1
GENERAL INFORMATION:
APPLICANT: Hedley, Mary Lynne
APPLICANT: Urban, Robert G.
APPLICANT: Chiciz, Roman M.
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
FILE REFERENCE: 08191-013001
CURRENT APPLICATION NUMBER: US/10/751,845
PRIOR FILING DATE: 2004-01-05
PRIOR APPLICATION NUMBER: US/09/664,225
PRIOR FILING DATE: 2000-08-18
PRIOR APPLICATION NUMBER: US 60/169,846
PRIOR FILING DATE: 1999-12-09
PRIOR APPLICATION NUMBER: US 60/154,665
PRIOR FILING DATE: 1999-09-16
NUMBER OF SEQ ID NOS: 163
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 62
LENGTH: 12
TYPE: PRT
ORGANISM: Human Papilloma virus
US-10-751-845-62

Query Match 100.0%; Score 49; DB 5; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.047;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTIGIVCPI 9
Db 4 GTIGIVCPI 12

RESULT 29

US-09-759-960-3
Sequence 3, Application US/09759960
Patent No. US2001000639A1
GENERAL INFORMATION:
APPLICANT: Urban, Robert G.
APPLICANT: Chiciz, Roman M.
APPLICANT: Collins, Edward J.
APPLICANT: Hedley, Mary Lynn
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
TITLE OF INVENTION: PROTEIN
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/759,960
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/169,425

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Fraser, Janis K.

REGISTRATION NUMBER: 34,819

REFERENCE/DOCKET NUMBER: 08191/004002

TELECOMMUNICATION INFORMATION:

TELEPHONE: 617-542-5070

TELEFAX: 617-543-8906

TELEX: 200154

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 13 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: peptide

US-09-759-960-3

Query Match 100.0%; Score 49; DB 3; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.051;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTIGIVCPI 9
Db 4 GTIGIVCPI 12

RESULT 30

US-09-759-960-4
Sequence 4, Application US/09759960
Patent No. US2001000639A1
GENERAL INFORMATION:
APPLICANT: Urban, Robert G.
APPLICANT: Chiciz, Roman M.
APPLICANT: Collins, Edward J.
APPLICANT: Hedley, Mary Lynn
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
TITLE OF INVENTION: PROTEIN
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/759,960
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/169,425
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/004002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-543-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 13 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-759-960-4

Query Match 100.0%; Score 49; DB 3; Length 13;

Best Local Similarity 100.0%; Pred. No. 0.051;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTLGIVCPI 9
Db 4 GTLGIVCPI 12

RESULT 31

US-09-759-960-19
Sequence 19, Application US/09759960
Patent No. US2001006639A1

GENERAL INFORMATION:
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
APPLICANT: Collins, Edward J.
APPLICANT: Hedley, Mary Lynn
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/759,960
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/169,425
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/004002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-543-8906
TELEX: 200154

INFORMATION FOR SEQ ID NO: 19:

SEQUENCE CHARACTERISTICS:
LENGTH: 13 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURES:

NAME/KEY: Other
LOCATION: 1...1
OTHER INFORMATION: where Xaa at position 1 is Met, Ala, Ser,
OTHER INFORMATION: Arg, Lys, Gly, Gln, Asp, or Glu
US-09-759-960-19

Query Match 100.0%; Score 49; DB 3; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.051;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTLGIVCPI 9
Db 4 GTLGIVCPI 12

RESULT 32
US-09-909-460-110
Sequence 110, Application US/09909460
Publication No. US20020182258A1
GENERAL INFORMATION:

APPLICANT: Lunsford, Lynn B.
APPLICANT: Putnam, David
APPLICANT: Hedley, Mary Lynn
TITLE OF INVENTION: MICROPARTICLES FOR DELIVERY OF NUCLEIC
FILE REFERENCE: 08191/014001
CURRENT APPLICATION NUMBER: US/09/909,460
CURRENT FILING DATE: 2001-07-18
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US/09/321,346
PRIOR FILING DATE: EARLIER FILING DATE: 1999-05-27
NUMBER OF SEQ ID NOS: 114
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 110
LENGTH: 13
TYPE: PRT
ORGANISM: Human papilloma virus
US-09-909-460-110

Query Match 100.0%; Score 49; DB 3; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.051;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTLGIVCPI 9
Db 4 GTLGIVCPI 12

RESULT 33
US-09-872-836-110
Sequence 110, Application US/09872836
Publication No. US20040142475A1
GENERAL INFORMATION:
APPLICANT: Barman, Shikha P.
APPLICANT: McKeever, Una
APPLICANT: Hedley, Mary Lynne
TITLE OF INVENTION: DELIVERY SYSTEMS FOR BIOACTIVE AGENTS
FILE REFERENCE: 08191-018001
CURRENT APPLICATION NUMBER: US/09/872,836
CURRENT FILING DATE: 2001-06-01
PRIOR APPLICATION NUMBER: US 60/208,830
PRIOR FILING DATE: 2000-06-02
NUMBER OF SEQ ID NOS: 120
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 110
LENGTH: 13
TYPE: PRT
ORGANISM: Homo sapiens
US-09-872-836-110

Query Match 100.0%; Score 49; DB 3; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.051;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTLGIVCPI 9
Db 4 GTLGIVCPI 12

RESULT 34
US-10-603-062-3
Sequence 3, Application US/10603062
Publication No. US20040229809A1
GENERAL INFORMATION:
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
APPLICANT: Collins, Edward J.
APPLICANT: Hedley, Mary Lynn
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 225 Franklin Street

CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/603,062
FILING DATE: 24-Jun-2003
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/169,425C
FILING DATE: 09-Oct-1998
APPLICATION NUMBER: 60/061,657
FILING DATE: 09-Oct-1997
ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/004002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-543-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 13 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-10-603-062-3

Query Match 100.0%; Score 49; DB 5; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.051;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGIVCPI 9
Db 4 GTLGIVCPI 12

RESULT 35
US-10-603-062-4
Sequence 4, Application US/10603062
Publication No. US20040229809A1
GENERAL INFORMATION:
APPLICANT: Urban, Robert G.
Chicz, Roman M.
Collins, Edward J.
Hedley, Mary Lynn
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
PROTEIN
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/603,062
FILING DATE: 24-Jun-2003
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/169,425C
FILING DATE: 09-Oct-1998

APPLICATION NUMBER: 60/061,657
FILING DATE: 09-Oct-1997
ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/004002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-543-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 13 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-10-603-062-4

Query Match 100.0%; Score 49; DB 5; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.051;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGIVCPI 9
Db 4 GTLGIVCPI 12

RESULT 36
US-10-603-062-19
Sequence 19, Application US/10603062
Publication No. US20040229809A1
GENERAL INFORMATION:
APPLICANT: Urban, Robert G.
Chicz, Roman M.
Collins, Edward J.
Hedley, Mary Lynn
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
PROTEIN
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/603,062
FILING DATE: 24-Jun-2003
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/169,425C
FILING DATE: 09-Oct-1998
APPLICATION NUMBER: 60/061,657
FILING DATE: 09-Oct-1997
ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/004002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-543-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 13 amino acids
TYPE: amino acid
TOPOLOGY: linear

MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: Other
LOCATION: 1...1
OTHER INFORMATION: where Xaa at position 1 is Met, Ala, Ser,
Arg, Lys, Gly, Gln, Asp, or Glu
SEQUENCE DESCRIPTION: SEQ ID NO: 19;
US-10-603-062-19

Query Match 100.0%; Score 49; DB 5; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.051;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTLGIVCPI 9
Db 4 GTLGIVCPI 12

RESULT 37
US-09-759-960-32
Sequence 32, Application US/09759960
Patent No. US20010006639A1
GENERAL INFORMATION:
APPLICANT: Urban, Robert G.
APPLICANT: Chicx, Roman M.
APPLICANT: Collins, Edward J.
APPLICANT: Hedley, Mary Lynn
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
TITLE OF INVENTION: PROTEIN
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/759,960
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/169,425
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/004002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-543-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 32:
SEQUENCE CHARACTERISTICS:
LENGTH: 14 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-759-960-32

Query Match 100.0%; Score 49; DB 3; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.055;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTLGIVCPI 9
Db 2 GTLGIVCPI 10

RESULT 38

US-10-603-062-32
Sequence 32, Application US/10603062
Publication No. US20040229809A1
GENERAL INFORMATION:
APPLICANT: Urban, Robert G.
APPLICANT: Chicx, Roman M.
APPLICANT: Collins, Edward J.
APPLICANT: Hedley, Mary Lynn

TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
TITLE OF INVENTION: PROTEIN

NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:

ADDRESSEE: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA

COUNTRY: US
ZIP: 02110-2804

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible

OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/603,062
FILING DATE: 24-Jun-2003

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/169,425C

FILING DATE: 09-OCT-1998
APPLICATION NUMBER: 60/061,657
FILING DATE: 09-OCT-1997

ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Janis K.

REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/004002

TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-543-8906

TELEX: 200154

INFORMATION FOR SEQ ID NO: 32:

SEQUENCE CHARACTERISTICS:
LENGTH: 14 amino acids
TYPE: amino acid

TOPOLOGY: linear
MOLECULE TYPE: peptide

SEQUENCE DESCRIPTION: SEQ ID NO: 32;
US-10-603-062-32

Query Match 100.0%; Score 49; DB 5; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.055;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTLGIVCPI 9
Db 2 GTLGIVCPI 10

RESULT 39

US-10-648-547-71

Sequence 71, Application US/10648547
Publication No. US20040147044A1

GENERAL INFORMATION:
APPLICANT: Mitelman, Abraham

APPLICANT: Kanduc, Darja
TITLE OF INVENTION: Improved Antigens

FILE REFERENCE: 12354/6
CURRENT APPLICATION NUMBER: US/10/648,547

PRIOR FILING DATE: 2003-08-25
CURRENT APPLICATION NUMBER: 10/306,541

PRIOR FILING DATE: 11-25-2002
PRIOR APPLICATION NUMBER: 60/333,249

PRIOR FILING DATE: 11-23-2001

```
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 71
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-71
```

```
Query Match          100.0%; Score 49; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.059;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 GTLGIVCPI 9
    |||||
Db 2 GTLGIVCPI 10
```

```
RESULT 40
US-10-648-547-84
; Sequence 84, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; PRIOR FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 84
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-84
```

```
Query Match          100.0%; Score 49; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.059;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 GTLGIVCPI 9
    |||||
Db 6 GTLGIVCPI 14
```

```
RESULT 41
US-10-476-570-52
; Sequence 52, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: Papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; PRIOR FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 52
; LENGTH: 15
```

```
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E7 84-98
US-10-476-570-52
```

```
Query Match          100.0%; Score 49; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.059;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 GTLGIVCPI 9
    |||||
Db 2 GTLGIVCPI 10
```

```
RESULT 42
US-10-306-541-71
; Sequence 71, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/4
; CURRENT APPLICATION NUMBER: US/10/306,541
; PRIOR FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 2001-11-23
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 71
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-306-541-71
```

```
Query Match          100.0%; Score 49; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.059;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 GTLGIVCPI 9
    |||||
Db 2 GTLGIVCPI 10
```

```
RESULT 43
US-10-306-541-84
; Sequence 84, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/4
; CURRENT APPLICATION NUMBER: US/10/306,541
; PRIOR FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 2001-11-23
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 84
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-306-541-84
```

```
Query Match          100.0%; Score 49; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.059;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 GTLGIVCPI 9
    |||||
Db 6 GTLGIVCPI 14
```

```
RESULT 44
US-09-759-960-25
; Sequence 25, Application US/09759960
; Patent No. US20010006639A1
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; APPLICANT: Collins, Edward J.
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/759,960
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/169,425
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 08191/004002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-543-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 16 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
;
US-09-759-960-25

Query Match          100.0%; Score 49; DB 3; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.063;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GTLGIVCPI 9
      |||||
      4 GTLGIVCPI 12

RESULT 45
US-09-909-460-109
; Sequence 109, Application US/09909460
; Publication No. US20020182258A1
; GENERAL INFORMATION:
; APPLICANT: Luneford, Lynn B.
; APPLICANT: Putnam, David
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: MICROPARTICLES FOR DELIVERY OF NUCLEIC
; FILE REFERENCE: 08191/014001
; CURRENT APPLICATION NUMBER: US/09/909,460
; PRIOR FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US/09/321,346
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-05-27
; NUMBER OF SEQ ID NOS: 114
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; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 109
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-09-909-460-109

Query Match          100.0%; Score 49; DB 3; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.063;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GTLGIVCPI 9
      |||||
      4 GTLGIVCPI 12

RESULT 46
US-09-872-836-109
; Sequence 109, Application US/09872836
; Publication No. US20040142475A1
; GENERAL INFORMATION:
; APPLICANT: Barman, Shikha P.
; APPLICANT: McKeever, Una
; APPLICANT: Hedley, Mary Lynne
; TITLE OF INVENTION: DELIVERY SYSTEMS FOR BIOACTIVE AGENTS
; FILE REFERENCE: 08191-018001
; CURRENT APPLICATION NUMBER: US/09/872,836
; PRIOR FILING DATE: 2001-06-01
; PRIOR APPLICATION NUMBER: US 60/208,830
; PRIOR FILING DATE: 2000-06-02
; NUMBER OF SEQ ID NOS: 120
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 109
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-872-836-109

Query Match          100.0%; Score 49; DB 3; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.063;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GTLGIVCPI 9
      |||||
      4 GTLGIVCPI 12

RESULT 47
US-10-603-062-25
; Sequence 25, Application US/10603062
; Publication No. US20040229809A1
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; APPLICANT: Collins, Edward J.
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/603,062
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/ FILING DATE: 24-Jun-2003
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US/09/169,425C
/ FILING DATE: 09-OCT-1998
/ APPLICATION NUMBER: 60/061,657
/ FILING DATE: 09-OCT-1997
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Frazer, Janis K.
/ REGISTRATION NUMBER: 34,819
/ REFERENCE/DOCKET NUMBER: 08191/004002
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 617-542-5070
/ TELEFAX: 617-543-8906
/
/ TELEX: 200154
/ INFORMATION FOR SEQ ID NO: 25:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 16 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: peptide
/ SEQUENCE DESCRIPTION: SEQ ID NO: 25:
US-10-603-062-25

Query Match      100.0%; Score 49; DB 5; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.063;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGIVCPI 9
Db 4 GTLGIVCPI 12

RESULT 48
US-10-758-970-109
/ Sequence 109, Application US/10758970
/ Publication No. US20050037086A1
/ GENERAL INFORMATION:
/ APPLICANT: Hedley, Mary Lynne
/ APPLICANT: Heu, Yung-Yueh
/ APPLICANT: Tyo, Michael
/ TITLE OF INVENTION: CONTINUOUS-FLOW METHOD FOR PREPARING MICROPARTICLES
/ FILE REFERENCE: 08191-012001
/ CURRENT APPLICATION NUMBER: US/10/758,970
/ CURRENT FILING DATE: 2004-01-16
/ PRIOR APPLICATION NUMBER: US/09/715,708A
/ PRIOR FILING DATE: 2000-11-17
/ PRIOR APPLICATION NUMBER: US 60/166,516
/ PRIOR FILING DATE: 1999-11-19
/ NUMBER OF SEQ ID NOS: 109
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 109
/ LENGTH: 16
/ TYPE: PRT
/ ORGANISM: Human papilloma virus
US-10-758-970-109

Query Match      100.0%; Score 49; DB 5; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.063;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGIVCPI 9
Db 4 GTLGIVCPI 12

RESULT 49
US-10-751-845-69
/ Sequence 69, Application US/10751845
/ Publication No. US20050100928A1
/ GENERAL INFORMATION:
/ APPLICANT: Hedley, Mary Lynne
/ APPLICANT: Urban, Robert G.
/ APPLICANT: Chicz, Roman M.
```

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/
/ TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
/ FILE REFERENCE: 08191-013001
/ CURRENT APPLICATION NUMBER: US/10/751,845
/ CURRENT FILING DATE: 2004-01-05
/ PRIOR APPLICATION NUMBER: US/09/664,225
/ PRIOR FILING DATE: 2000-08-18
/ PRIOR APPLICATION NUMBER: US 60/169,846
/ PRIOR FILING DATE: 1999-12-09
/ PRIOR APPLICATION NUMBER: US 60/154,665
/ PRIOR FILING DATE: 1999-09-16
/ NUMBER OF SEQ ID NOS: 163
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 69
/ LENGTH: 17
/ TYPE: PRT
/ ORGANISM: Human Papilloma virus
US-10-751-845-69

Query Match      100.0%; Score 49; DB 5; Length 17;
Best Local Similarity 100.0%; Pred. No. 0.067;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGIVCPI 9
Db 4 GTLGIVCPI 12

RESULT 50
US-10-476-570-58
/ Sequence 58, Application US/10476570
/ Publication No. US20040170644A1
/ GENERAL INFORMATION:
/ APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
/ APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
/ APPLICANT: MAILLER, Bernard
/ APPLICANT: BOURGAULT-VILLADA, Isabelle
/ APPLICANT: BOURVILLE-MORATILLE, Sandra
/ APPLICANT: GUILLET, Jean-Gerard
/ TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
/ FILE REFERENCE: 45636-5071-US
/ CURRENT APPLICATION NUMBER: US/10/476,570
/ CURRENT FILING DATE: 2003-11-04
/ PRIOR APPLICATION NUMBER: PCT/FR02/01533
/ PRIOR FILING DATE: 2002-05-03
/ PRIOR APPLICATION NUMBER: FR 01 05980
/ PRIOR FILING DATE: 2001-05-04
/ NUMBER OF SEQ ID NOS: 63
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 58
/ LENGTH: 19
/ TYPE: PRT
/ ORGANISM: artificial sequence
/ FEATURE:
/ OTHER INFORMATION: Description of the artificial sequence: peptide E7 79-97
US-10-476-570-58

Query Match      100.0%; Score 49; DB 4; Length 19;
Best Local Similarity 100.0%; Pred. No. 0.075;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGIVCPI 9
Db 7 GTLGIVCPI 15
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Search completed: May 5, 2006, 08:39:44
Job time : 62 secs

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:29:56 ; Search time 8.4 Seconds
(without alignments)
49.591 Million cell updates/sec

Title: US-08-170-344-19

Perfect score: 49
Sequence: 1 GTIGVCP1 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 1000 summaries

Database :

Published Applications_AA_New:*

- 1: /SIDS5/ptodata/1/pubppaa/US08_NEW_PUB.pep1.*
- 2: /SIDS5/ptodata/1/pubppaa/US06_NEW_PUB.pep.*
- 3: /SIDS5/ptodata/1/pubppaa/US07_NEW_PUB.pep.*
- 4: /SIDS5/ptodata/1/pubppaa/US08_NEW_PUB.pep.*
- 5: /SIDS5/ptodata/1/pubppaa/PCT_NEW_PUB.pep.*
- 6: /SIDS5/ptodata/1/pubppaa/US05_NEW_PUB.pep.*
- 7: /SIDS5/ptodata/1/pubppaa/US09_NEW_PUB.pep1.*
- 8: /SIDS5/ptodata/1/pubppaa/US10_NEW_PUB.pep.*
- 9: /SIDS5/ptodata/1/pubppaa/US11_NEW_PUB.pep1.*
- 10: /SIDS5/ptodata/1/pubppaa/US11_NEW_PUB.pep1.*
- 11: /SIDS5/ptodata/1/pubppaa/US11_NEW_PUB.pep1.*
- 12: /SIDS5/ptodata/1/pubppaa/US60_NEW_PUB.pep1.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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4	49	100.0	98	8	US-10-511-814-11
5	49	100.0	98	8	US-10-530-253-14
6	49	100.0	98	11	US-11-179-478-4
7	49	100.0	248	9	US-10-530-253-1
8	49	100.0	248	9	US-10-530-253-3
9	49	100.0	248	9	US-10-530-253-7
10	49	100.0	248	9	US-10-530-253-9
11	49	100.0	256	11	US-11-192-923A-2
12	41	83.7	99	9	US-10-530-253-30
13	39	79.6	82	9	US-10-485-517-372
14	37	75.5	15	9	US-10-530-061-1723
15	37	75.5	98	9	US-10-530-253-28
16	37	75.5	179	11	US-11-106-399-10
17	37	75.5	248	9	US-10-530-253-5
18	37	75.5	248	9	US-10-530-253-11
19	37	75.5	486	11	US-11-188-298-4455
20	37	75.5	1379	11	US-11-114-962-4
21	36	73.5	15	9	US-10-530-061-1726

22	36	73.5	15	9	US-10-530-061-1727	Sequence 1727, Ap
23	36	73.5	15	9	US-10-530-061-1733	Sequence 1733, Ap
24	36	73.5	15	9	US-10-530-061-1734	Sequence 1734, Ap
25	36	73.5	97	9	US-10-530-253-29	Sequence 29, Appl
26	36	73.5	99	9	US-10-530-253-34	Sequence 34, Appl
27	36	73.5	555	11	US-11-188-298-18750	Sequence 18750, A
28	36	73.5	788	11	US-11-188-298-4463	Sequence 4463, Ap
29	36	73.5	788	11	US-11-188-298-7394	Sequence 7394, Ap
30	36	73.5	204	11	US-11-072-512-2253	Sequence 2253, Ap
31	35	72.4	204	11	US-11-072-512-2253	Sequence 2253, Ap
32	35	71.4	162	11	US-11-055-822-788	Sequence 788, App
33	35	71.4	162	11	US-11-188-298-8523	Sequence 8523, Ap
34	35	71.4	163	11	US-11-188-298-10878	Sequence 10878, A
35	35	71.4	12303	11	US-11-188-298-12303	Sequence 12303, A
36	35	71.4	471	11	US-11-098-666-11340	Sequence 11340, A
37	35	71.4	484	11	US-11-188-298-8186	Sequence 8186, Ap
38	35	71.4	485	11	US-11-188-298-15333	Sequence 15333, A
39	35	71.4	486	11	US-11-188-298-16022	Sequence 16022, A
40	35	71.4	503	11	US-11-188-298-10771	Sequence 10771, A
41	35	71.4	535	11	US-11-096-568A-26450	Sequence 26450, A
42	35	71.4	592	11	US-11-096-568A-26449	Sequence 26449, A
43	35	71.4	1003	11	US-11-096-568A-31774	Sequence 31774, A
44	35	71.4	1023	11	US-11-096-568A-31773	Sequence 31772, A
45	34	69.4	1054	11	US-11-096-568A-31772	Sequence 31772, A
46	34	69.4	491	11	US-11-188-298-5983	Sequence 5983, Ap
47	34	69.4	497	11	US-11-188-298-6223	Sequence 6223, Ap
48	34	69.4	796	11	US-11-188-298-3033	Sequence 3033, Ap
49	34	69.4	798	11	US-11-188-298-10633	Sequence 10633, A
50	34	69.4	1051	9	US-10-204-639-15	Sequence 15, Appl
51	33	67.3	291	11	US-11-188-298-947	Sequence 947, Ap
52	33	67.3	384	9	US-10-501-035-209	Sequence 209, App
53	33	67.3	384	9	US-11-087-099-8866	Sequence 8866, Ap
54	33	67.3	396	11	US-11-087-099-8866	Sequence 8866, Ap
55	33	67.3	400	11	US-11-188-298-12544	Sequence 12544, A
56	33	67.3	2591	9	US-10-453-372-718	Sequence 718, App
57	33	67.3	2602	9	US-10-453-372-716	Sequence 716, App
58	33	67.3	2617	9	US-10-453-372-666	Sequence 666, App
59	33	67.3	2617	9	US-10-453-372-732	Sequence 732, App
60	33	67.3	2617	9	US-10-453-372-734	Sequence 734, App
61	33	67.3	2617	9	US-10-453-372-736	Sequence 736, App
62	33	67.3	2617	9	US-10-453-372-738	Sequence 738, App
63	33	67.3	2617	9	US-10-453-372-740	Sequence 740, App
64	33	67.3	2617	9	US-10-453-372-742	Sequence 742, App
65	33	67.3	2617	9	US-10-453-372-744	Sequence 744, App
66	33	67.3	2617	9	US-10-453-372-746	Sequence 746, App
67	33	67.3	2617	9	US-10-453-372-748	Sequence 748, App
68	33	67.3	2617	9	US-10-453-372-750	Sequence 750, App
69	32	65.3	10	9	US-10-530-061-662	Sequence 662, App
70	32	65.3	15	9	US-10-530-061-1748	Sequence 1748, Ap
71	32	65.3	72	9	US-10-644-897-438	Sequence 438, App
72	32	65.3	98	9	US-10-530-253-36	Sequence 36, App
73	32	65.3	186	11	US-11-188-298-1957	Sequence 1957, Ap
74	32	65.3	233	8	US-10-511-937-2414	Sequence 2414, Ap
75	32	65.3	329	11	US-11-188-298-1499	Sequence 1499, Ap
76	32	65.3	329	11	US-11-188-298-4741	Sequence 4741, Ap
77	32	65.3	347	11	US-11-188-298-4593	Sequence 4593, Ap
78	32	65.3	357	9	US-10-506-454-307	Sequence 307, App
79	32	65.3	359	11	US-11-188-298-5814	Sequence 5814, Ap
80	32	65.3	374	11	US-11-188-298-17381	Sequence 17381, A
81	32	65.3	391	11	US-11-045-004-2697	Sequence 2697, Ap
82	32	65.3	410	11	US-11-188-298-9180	Sequence 9180, Ap
83	32	65.3	410	11	US-11-188-298-11564	Sequence 11564, A
84	32	65.3	448	8	US-10-975-632-15	Sequence 15, Appl
85	32	65.3	448	11	US-11-112-882-24	Sequence 24, Appl
86	32	65.3	448	11	US-11-112-882-64	Sequence 64, Appl
87	32	65.3	448	11	US-11-112-882-65	Sequence 65, Appl
88	32	65.3	448	11	US-11-112-882-66	Sequence 66, Appl
89	32	65.3	448	11	US-11-112-882-67	Sequence 67, Appl
90	32	65.3	448	11	US-11-146-128-51	Sequence 51, Appl
91	32	65.3	450	9	US-10-995-551-815	Sequence 815, App
92	32	65.3	494	11	US-11-188-298-573	Sequence 573, App
93	32	65.3	506	9	US-10-467-657-2088	Sequence 2088, Ap
94	32	65.3	540	11	US-11-096-568A-6039	Sequence 6039, Ap

95	32	65.3	541	11	US-11-096-568A-32068	Sequence 32068, A	168	31	63.3	1025	11	US-11-169-041-164	Sequence 164, App
96	32	65.3	550	9	US-10-523-503-64	Sequence 54, App1	169	31	63.3	3460	8	US-10-505-928-104	Sequence 104, App
97	32	65.3	571	11	US-11-188-298-20583	Sequence 20583, A	170	30	61.2	13	9	US-10-530-061-658	Sequence 658, App
98	32	65.3	573	11	US-11-188-298-20841	Sequence 20841, A	171	30	61.2	11	9	US-10-970-047-18	Sequence 18, App1
99	32	65.3	593	11	US-11-188-298-11982	Sequence 11982, A	172	30	61.2	13	9	US-10-970-804-728	Sequence 28, App1
100	32	65.3	593	11	US-11-188-298-14123	Sequence 14123, A	173	30	61.2	32	9	US-10-895-064-2806	Sequence 2806, App
101	32	65.3	593	11	US-11-188-298-18740	Sequence 18740, A	174	30	61.2	32	11	US-11-129-741-2806	Sequence 2806, App
102	32	65.3	594	11	US-11-188-298-18849	Sequence 18849, A	175	30	61.2	133	11	US-11-188-576-5	Sequence 5, App1.1
103	32	65.3	595	11	US-11-188-298-18101	Sequence 18101, A	176	30	61.2	180	11	US-11-188-298-15461	Sequence 16461, A
104	32	65.3	595	11	US-11-188-298-20667	Sequence 20667, A	177	30	61.2	161	11	US-11-096-568A-22275	Sequence 22275, A
105	32	65.3	600	11	US-11-188-298-14041	Sequence 14041, A	178	30	61.2	162	11	US-11-096-568A-22274	Sequence 22274, A
106	32	65.3	615	11	US-11-096-568A-31197	Sequence 31197, A	179	30	61.2	166	11	US-11-096-568A-7039	Sequence 7039, App
107	32	65.3	656	9	US-10-995-561-871	Sequence 871, App	180	30	61.2	169	11	US-11-096-568A-10270	Sequence 10270, A
108	32	65.3	659	9	US-10-793-626-1596	Sequence 1596, App	181	30	61.2	173	11	US-11-096-568A-10269	Sequence 10269, A
109	32	65.3	679	11	US-10-995-561-872	Sequence 872, App	182	30	61.2	190	11	US-11-188-298-15108	Sequence 15108, A
110	32	65.3	707	11	US-11-096-568A-31196	Sequence 31196, A	183	30	61.2	197	11	US-11-096-568A-7038	Sequence 7038, App
111	32	65.3	725	11	US-11-096-568A-31195	Sequence 31195, A	184	30	61.2	204	11	US-11-188-298-20019	Sequence 20019, A
112	31.5	64.3	545	9	US-10-453-372-222	Sequence 6731, App	185	30	61.2	213	11	US-11-188-298-5978	Sequence 5978, App
113	31	63.3	149	9	US-10-467-657-9055	Sequence 222, App	186	30	61.2	222	11	US-11-188-298-8812	Sequence 8812, App
114	31	63.3	101	9	US-10-530-253-33	Sequence 9055, App	187	30	61.2	227	11	US-11-096-568A-7037	Sequence 7037, App
115	31	63.3	107	9	US-10-530-253-37	Sequence 33, App1	188	30	61.2	245	11	US-11-079-463-9069	Sequence 9069, App
116	31	63.3	109	9	US-10-530-253-31	Sequence 6731, App	189	30	61.2	257	9	US-10-995-561-747	Sequence 747, App
117	31	63.3	227	11	US-11-087-099-6731	Sequence 6731, App	190	30	61.2	267	11	US-11-188-298-12836	Sequence 12836, A
118	31	63.3	232	11	US-11-188-298-13545	Sequence 13545, A	191	30	61.2	290	9	US-10-506-454-240	Sequence 240, App
119	31	63.3	239	11	US-11-188-298-22516	Sequence 22516, App	192	30	61.2	305	11	US-11-096-568A-13545	Sequence 13545, A
120	31	63.3	240	9	US-10-506-454-1172	Sequence 1172, App	193	30	61.2	323	11	US-11-188-298-11539	Sequence 11539, A
121	31	63.3	250	11	US-11-188-298-13254	Sequence 13254, A	194	30	61.2	329	11	US-11-096-568A-25850	Sequence 25850, A
122	31	63.3	256	11	US-11-188-298-5776	Sequence 5776, App	195	30	61.2	333	11	US-11-045-004-3492	Sequence 3492, App
123	31	63.3	277	11	US-11-188-298-3162	Sequence 3162, App	196	30	61.2	345	11	US-11-072-512-2641	Sequence 2641, App
124	31	63.3	284	11	US-11-096-568A-24473	Sequence 24473, App	197	30	61.2	345	11	US-11-096-568A-17189	Sequence 17189, App
125	31	63.3	320	11	US-11-072-512-2641	Sequence 2641, App	198	30	61.2	353	9	US-10-506-454-830	Sequence 830, App
126	31	63.3	329	11	US-11-096-568A-27521	Sequence 27521, App	199	30	61.2	360	11	US-11-096-568A-25849	Sequence 25849, A
127	31	63.3	339	11	US-11-188-298-312	Sequence 312, App	200	30	61.2	369	11	US-11-188-298-17616	Sequence 17616, App
128	31	63.3	332	11	US-11-096-568A-20285	Sequence 20285, A	201	30	61.2	407	11	US-11-188-298-15332	Sequence 15332, A
129	31	63.3	334	11	US-11-188-298-12554	Sequence 12554, A	202	30	61.2	437	11	US-11-188-298-18909	Sequence 18909, App
130	31	63.3	338	11	US-11-096-568A-27520	Sequence 27520, A	203	30	61.2	445	9	US-10-995-561-746	Sequence 746, App
131	31	63.3	367	11	US-10-506-454-305	Sequence 305, App	204	30	61.2	454	11	US-11-045-004-131	Sequence 131, App
132	31	63.3	367	11	US-11-096-568A-20284	Sequence 20284, App	205	30	61.2	457	11	US-11-045-004-198	Sequence 198, App
133	31	63.3	368	11	US-11-188-298-11332	Sequence 11332, A	206	30	61.2	459	11	US-11-087-099-1361	Sequence 1361, App
134	31	63.3	369	11	US-11-096-568A-28936	Sequence 28936, A	207	30	61.2	471	11	US-11-045-004-1768	Sequence 1768, App
141	31	63.3	378	11	US-11-096-568A-28935	Sequence 28935, A	213	30	61.2	491	9	US-10-995-561-743	Sequence 743, App
142	31	63.3	379	11	US-11-096-568A-27519	Sequence 27519, A	215	30	61.2	494	11	US-11-188-298-12254	Sequence 12254, A
143	31	63.3	387	11	US-11-096-568A-20283	Sequence 20283, A	216	30	61.2	505	11	US-11-079-463-1278	Sequence 1278, App
144	31	63.3	394	11	US-11-079-463-8729	Sequence 8729, App	217	30	61.2	512	9	US-11-188-298-16466	Sequence 16466, A
145	31	63.3	397	9	US-10-467-657-1060	Sequence 1060, App	218	30	61.2	514	9	US-10-995-561-745	Sequence 745, App
146	31	63.3	398	11	US-11-188-298-20661	Sequence 20661, A	219	30	61.2	516	11	US-11-188-298-1624	Sequence 1624, App
147	31	63.3	411	11	US-11-188-298-10886	Sequence 10886, A	220	30	61.2	516	11	US-11-188-298-16660	Sequence 16660, A
148	31	63.3	412	11	US-11-188-298-21261	Sequence 21261, A	221	30	61.2	517	11	US-11-188-298-1378	Sequence 1378, App
149	31	63.3	419	11	US-11-096-568A-28934	Sequence 28934, A	222	30	61.2	518	11	US-11-072-512-2392	Sequence 2392, App
150	31	63.3	426	11	US-11-079-463-7547	Sequence 7547, App	223	30	61.2	550	11	US-11-188-298-5727	Sequence 5727, App
151	31	63.3	429	11	US-11-188-298-21109	Sequence 21109, A	224	30	61.2	553	11	US-11-096-568A-18037	Sequence 18037, A
152	31	63.3	430	11	US-11-079-463-8486	Sequence 8486, App	225	30	61.2	581	11	US-11-096-568A-12998	Sequence 12998, A
153	31	63.3	447	11	US-11-188-298-7951	Sequence 7951, App	226	30	61.2	587	11	US-11-188-298-30209	Sequence 30209, A
154	31	63.3	451	11	US-11-188-298-6556	Sequence 6556, App	227	30	61.2	597	11	US-11-096-568A-12997	Sequence 12997, A
155	31	63.3	458	11	US-11-079-463-9027	Sequence 9027, App	228	30	61.2	644	9	US-10-491-468-46	Sequence 46, App1
156	31	63.3	461	11	US-11-096-568A-2230	Sequence 2230, App	229	30	61.2	801	9	US-10-793-626-2020	Sequence 2020, App
157	31	63.3	465	11	US-11-182-016-27	Sequence 27, App1	230	30	61.2	920	9	US-10-623-155-357	Sequence 357, App
158	31	63.3	486	11	US-11-000-463-273	Sequence 273, App1	231	30	61.2	943	10	US-10-623-155-161	Sequence 161, App
159	31	63.3	488	11	US-11-188-298-6889	Sequence 6889, App	232	30	61.2	943	10	US-11-300-678-39	Sequence 29, App1
160	31	63.3	500	11	US-11-010-239-14	Sequence 14, App1	233	30	61.2	389	9	US-10-204-252-10	Sequence 10, App1
161	31	63.3	500	11	US-11-188-298-7890	Sequence 7890, App	234	30	61.2	3390	9	US-10-204-252-20	Sequence 20, App1
162	31	63.3	532	11	US-11-096-568A-2229	Sequence 2229, App	235	30	61.2	4393	9	US-10-204-252-12	Sequence 22, App1
163	31	63.3	533	11	US-11-188-298-12288	Sequence 12288, A	236	30	61.2	4913	9	US-10-453-372-1142	Sequence 1142, App
164	31	63.3	561	11	US-11-096-568A-2228	Sequence 2228, App	237	30	61.2	4961	11	US-10-453-372-1132	Sequence 1132, App
165	31	63.3	776	11	US-11-072-512-2108	Sequence 2108, App	238	29.5	60.2	179	11	US-11-079-463-5447	Sequence 5447, App
166	31	63.3	948	11	US-11-079-463-10195	Sequence 10195, A	239	29	59.2	10	9	US-10-530-061-309	Sequence 309, App
167	31	63.3	1025	8	US-10-505-928-505	Sequence 505, App	240	29	59.2	10	9	US-10-530-061-310	Sequence 310, App

241	29	59.2	15	9	US-10-530-061-1713	Sequence 1713, Ap	314	29	59.2	428	10	US-11-106-014-6	Sequence 6, Appl1
242	29	59.2	15	9	US-10-530-061-1719	Sequence 1719, Ap	315	29	59.2	428	11	US-11-073-467-6	Sequence 6, Appl1
243	29	59.2	15	9	US-10-530-061-1730	Sequence 1730, Ap	316	29	59.2	428	11	US-11-073-466-6	Sequence 6, Appl1
244	29	59.2	15	9	US-10-530-061-1742	Sequence 1742, Ap	317	29	59.2	429	11	US-11-045-004-1555	Sequence 1555, Ap
245	29	59.2	15	9	US-10-530-061-1743	Sequence 1743, Ap	318	29	59.2	437	9	US-10-131-826A-466	Sequence 466, App
246	29	59.2	15	9	US-10-530-061-1744	Sequence 1744, Ap	319	29	59.2	437	9	US-10-973-115B-466	Sequence 466, App
247	29	59.2	14	11	US-11-096-568A-5646	Sequence 5646, Ap	320	29	59.2	437	9	US-10-213-535-16	Sequence 16, Appl1
248	29	59.2	45	11	US-11-000-463-441	Sequence 441, App	321	29	59.2	437	9	US-10-218-184-162	Sequence 162, App
249	29	59.2	45	11	US-11-000-463-913	Sequence 913, App	322	29	59.2	437	9	US-10-219-061-162	Sequence 162, App
250	29	59.2	57	11	US-11-264-096-414	Sequence 414, App	323	29	59.2	437	9	US-10-219-062-162	Sequence 162, App
251	29	59.2	57	11	US-11-264-096-415	Sequence 415, App	324	29	59.2	437	9	US-10-219-064-162	Sequence 162, App
252	29	59.2	60	9	US-10-467-657-1040	Sequence 1040, Ap	325	29	59.2	437	9	US-10-233-134-162	Sequence 162, App
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254	29	59.2	60	9	US-10-467-657-8308	Sequence 8308, Ap	327	29	59.2	437	9	US-10-152-170-466	Sequence 466, App
255	29	59.2	62	9	US-10-475-075-891	Sequence 891, App	328	29	59.2	437	11	US-11-290-153-466	Sequence 466, App
256	29	59.2	104	11	US-11-096-568A-22620	Sequence 22620, A	329	29	59.2	428	11	US-11-188-298-3025	Sequence 3025, Ap
257	29	59.2	105	9	US-10-530-253-47	Sequence 27, Appl1	330	29	59.2	441	11	US-11-087-099-7887	Sequence 7887, Ap
258	29	59.2	105	9	US-10-530-253-35	Sequence 35, Appl1	331	29	59.2	441	11	US-11-188-298-6457	Sequence 6457, Ap
259	29	59.2	106	9	US-10-530-253-32	Sequence 32, Appl1	332	29	59.2	443	9	US-10-513-639-19	Sequence 19, Appl1
260	29	59.2	109	11	US-11-096-568A-13268	Sequence 13268, A	333	29	59.2	447	11	US-11-232-805-8	Sequence 8, Appl1
261	29	59.2	118	9	US-10-644-807-355	Sequence 355, App	334	29	59.2	450	11	US-11-232-805-7	Sequence 7, Appl1
262	29	59.2	120	9	US-10-644-807-433	Sequence 433, App	335	29	59.2	450	11	US-10-455-772-760	Sequence 760, App
263	29	59.2	126	11	US-11-096-568A-10762	Sequence 3372, Ap	336	29	59.2	457	9	US-10-455-772-764	Sequence 764, App
264	29	59.2	138	11	US-11-072-512-3372	Sequence 2000, Ap	337	29	59.2	457	9	US-10-455-772-766	Sequence 766, App
265	29	59.2	147	9	US-10-467-657-2000	Sequence 5624, Ap	338	29	59.2	457	9	US-10-455-772-768	Sequence 768, App
266	29	59.2	162	9	US-10-467-657-5624	Sequence 55, Appl1	339	29	59.2	457	9	US-10-455-772-776	Sequence 770, App
267	29	59.2	176	9	US-10-880-881-55	Sequence 22040, A	340	29	59.2	474	11	US-11-188-298-667	Sequence 667, App
268	29	59.2	181	11	US-11-096-568A-22240	Sequence 22039, A	341	29	59.2	474	11	US-11-188-298-5955	Sequence 5955, Ap
269	29	59.2	193	11	US-11-096-568A-22239	Sequence 22610, A	342	29	59.2	474	11	US-11-188-298-14126	Sequence 14126, A
270	29	59.2	194	11	US-11-096-568A-22618	Sequence 5497, Ap	343	29	59.2	474	11	US-11-188-298-22242	Sequence 22242, A
271	29	59.2	213	11	US-11-096-568A-5497	Sequence 381, App	344	29	59.2	488	11	US-11-096-568A-25370	Sequence 25370, A
272	29	59.2	215	11	US-11-124-367A-381	Sequence 381, App	345	29	59.2	497	9	US-10-918-857-8	Sequence 8, Appl1
273	29	59.2	215	11	US-11-124-367A-383	Sequence 256, App	346	29	59.2	497	9	US-10-453-372-496	Sequence 456, App
274	29	59.2	217	9	US-10-644-807-356	Sequence 31371, A	347	29	59.2	500	9	US-10-453-372-492	Sequence 452, App
275	29	59.2	218	11	US-11-096-568A-31371	Sequence 16486, A	348	29	59.2	500	9	US-10-453-372-502	Sequence 502, App
276	29	59.2	228	11	US-11-096-568A-16486	Sequence 56, Appl1	349	29	59.2	500	9	US-10-453-372-504	Sequence 504, App
277	29	59.2	233	11	US-11-232-805-56	Sequence 10552, A	350	29	59.2	500	9	US-10-063-703-84	Sequence 84, Appl1
278	29	59.2	244	11	US-11-096-568A-10552	Sequence 59, Appl1	351	29	59.2	500	9	US-10-218-184-180	Sequence 180, App
279	29	59.2	246	9	US-10-880-881-59	Sequence 6014, Ap	352	29	59.2	500	9	US-10-219-061-180	Sequence 180, App
280	29	59.2	255	11	US-11-087-099-6014	Sequence 11421, A	353	29	59.2	500	9	US-10-219-062-180	Sequence 180, App
281	29	59.2	255	11	US-11-098-686-11441	Sequence 11485, A	354	29	59.2	500	9	US-10-219-064-180	Sequence 180, App
282	29	59.2	264	11	US-11-096-568A-16485	Sequence 10551, A	355	29	59.2	500	9	US-10-233-134-180	Sequence 180, App
283	29	59.2	268	11	US-11-096-568A-10551	Sequence 10551, A	356	29	59.2	500	11	US-11-103-195-84	Sequence 84, Appl1
284	29	59.2	270	9	US-10-506-454-658	Sequence 658, App	357	29	59.2	506	11	US-11-103-195-84	Sequence 84, Appl1
285	29	59.2	270	11	US-11-096-568A-22038	Sequence 22038, A	358	29	59.2	506	11	US-11-188-298-12310	Sequence 12310, A
286	29	59.2	275	11	US-11-188-298-4830	Sequence 4830, Ap	359	29	59.2	513	9	US-10-878-556A-112	Sequence 112, App
287	29	59.2	281	8	US-10-511-937-2552	Sequence 2552, Ap	360	29	59.2	519	11	US-11-188-298-12369	Sequence 2369, A
288	29	59.2	282	11	US-11-096-568A-5456	Sequence 5456, App	361	29	59.2	520	11	US-11-096-568A-12760	Sequence 12760, A
289	29	59.2	284	11	US-11-124-367A-382	Sequence 10570, A	362	29	59.2	520	11	US-11-188-298-12760	Sequence 21432, A
290	29	59.2	284	11	US-11-087-099-10570	Sequence 57, Appl1	363	29	59.2	541	11	US-11-188-298-21432	Sequence 21432, A
291	29	59.2	286	9	US-10-880-881-57	Sequence 31370, A	364	29	59.2	541	11	US-11-079-463-6052	Sequence 6052, Ap
292	29	59.2	288	11	US-11-096-568A-31370	Sequence 11375, A	365	29	59.2	576	9	US-10-922-166-2	Sequence 2, Appl1
293	29	59.2	288	11	US-11-098-686-11375	Sequence 5495, App	366	29	59.2	584	11	US-11-087-099-5872	Sequence 5872, Ap
294	29	59.2	296	11	US-11-096-568A-5456	Sequence 10980, A	367	29	59.2	588	11	US-11-188-298-14702	Sequence 14702, A
295	29	59.2	305	11	US-11-098-686-10980	Sequence 12042, A	368	29	59.2	589	11	US-11-188-298-11139	Sequence 11139, A
296	29	59.2	323	11	US-11-087-099-12042	Sequence 18414, A	369	29	59.2	592	11	US-10-770-726-71	Sequence 71, Appl1
297	29	59.2	335	11	US-11-096-568A-18414	Sequence 18413, A	370	29	59.2	599	11	US-11-188-298-422	Sequence 422, App
298	29	59.2	337	11	US-11-096-568A-18413	Sequence 64, Appl1	371	29	59.2	599	11	US-10-506-454-429	Sequence 825, App
299	29	59.2	361	11	US-11-082-389-54	Sequence 702, App	372	29	59.2	665	11	US-11-188-298-13779	Sequence 13779, A
300	29	59.2	368	11	US-11-045-004-702	Sequence 1129, Ap	373	29	59.2	665	11	US-11-072-512-3377	Sequence 3377, Ap
301	29	59.2	372	11	US-11-087-099-1129	Sequence 61, Appl1	374	29	59.2	680	9	US-10-915-002-190	Sequence 190, App
302	29	59.2	373	9	US-10-880-881-61	Sequence 10584, A	375	29	59.2	686	9	US-10-821-234-1027	Sequence 1027, Ap
303	29	59.2	374	11	US-11-098-686-10584	Sequence 15500, A	376	29	59.2	686	9	US-10-080-991-46	Sequence 46, Appl1
304	29	59.2	375	11	US-11-188-298-15500	Sequence 16412, A	377	29	59.2	708	9	US-10-131-826A-298	Sequence 298, App
305	29	59.2	378	11	US-11-096-568A-18412	Sequence 16484, A	378	29	59.2	708	9	US-10-973-115B-298	Sequence 298, App
306	29	59.2	381	11	US-11-096-568A-16484	Sequence 7245, Ap	379	29	59.2	708	9	US-10-137-873A-298	Sequence 298, App
307	29	59.2	389	11	US-11-087-059-7245	Sequence 7245, Ap	380	29	59.2	708	9	US-10-152-370-298	Sequence 298, App
308	29	59.2	392	11	US-11-188-298-7928	Sequence 7928, Ap	381	29	59.2	718	9	US-11-290-153-298	Sequence 298, App
309	29	59.2	395	11	US-11-188-298-3827	Sequence 3827, Ap	382	29	59.2	718	9	US-10-918-857-2	Sequence 2, Appl1
310	29	59.2	413	9	US-11-096-568A-25371	Sequence 25371, A	383	29	59.2	779	11	US-11-186-184-151	Sequence 151, App
311	29	59.2	425	9	US-10-918-857-4	Sequence 4, Appl1	384	29	59.2	790	9	US-10-918-857-6	Sequence 6, Appl1
312	29	59.2	425	11	US-11-096-568A-29919	Sequence 29919, A	385	29	59.2	836	9	US-10-922-166-10	Sequence 20, Appl1
313	29	59.2	428	9	US-10-632-150-6	Sequence 6, Appl1	386	29	59.2	836	9	US-10-921-793-84	Sequence 84, Appl1

387	29	59.2	836	9	US-10-931-198-84	Sequence 84, Appl	460	28	57.1	236	11	US-11-079-463-5430	Sequence 5430, Ap
388	29	59.2	836	9	US-10-942-042-84	Sequence 84, Appl	461	28	57.1	240	11	US-11-087-099-8178	Sequence 8178, Ap
389	29	59.2	836	11	US-11-186-284-149	Sequence 149, Appl	462	28	57.1	244	9	US-10-467-657-2638	Sequence 2638, Ap
390	29	59.2	836	11	US-11-183-261-53	Sequence 53, Appl	463	28	57.1	246	11	US-11-054-515-1847	Sequence 1847, Ap
391	29	59.2	845	9	US-10-725-475-18	Sequence 18, Appl	464	28	57.1	246	11	US-11-266-444-1847	Sequence 1847, Ap
392	29	59.2	900	11	US-11-144-987-4	Sequence 4, Appl	465	28	57.1	249	11	US-11-054-515-2002	Sequence 2002, Ap
393	29	59.2	900	11	US-11-144-987-10	Sequence 10, Appl	466	28	57.1	249	11	US-11-266-444-2002	Sequence 2002, Ap
394	29	59.2	900	11	US-11-205-935-4	Sequence 4, Appl	467	28	57.1	250	11	US-11-054-515-1990	Sequence 1990, Ap
395	29	59.2	900	11	US-11-205-935-10	Sequence 10, Appl	468	28	57.1	250	11	US-11-266-444-1990	Sequence 1990, Ap
396	29	59.2	902	11	US-11-144-987-6	Sequence 6, Appl	469	28	57.1	251	11	US-11-054-515-1946	Sequence 1946, Ap
397	29	59.2	902	11	US-11-144-987-8	Sequence 8, Appl	470	28	57.1	251	11	US-11-266-444-1546	Sequence 1546, Ap
398	29	59.2	902	11	US-11-144-987-12	Sequence 12, Appl	471	28	57.1	254	11	US-11-054-515-1966	Sequence 1966, Ap
399	29	59.2	902	11	US-11-144-987-14	Sequence 14, Appl	472	28	57.1	254	11	US-11-266-444-1966	Sequence 1966, Ap
400	29	59.2	902	11	US-11-205-935-6	Sequence 6, Appl	473	28	57.1	255	11	US-11-054-515-1597	Sequence 1597, Ap
401	29	59.2	902	11	US-11-205-935-8	Sequence 8, Appl	474	28	57.1	255	11	US-11-266-444-1597	Sequence 1597, Ap
402	29	59.2	902	11	US-11-205-935-12	Sequence 12, Appl	475	28	57.1	256	11	US-11-096-568A-23243	Sequence 23243, A
403	29	59.2	902	11	US-11-205-935-14	Sequence 14, Appl	476	28	57.1	263	11	US-11-096-568A-17277	Sequence 17277, A
404	29	59.2	910	11	US-11-144-987-2	Sequence 2, Appl	477	28	57.1	265	11	US-11-096-568A-24007	Sequence 24007, A
405	29	59.2	910	11	US-11-205-935-2	Sequence 2, Appl	478	28	57.1	273	11	US-11-096-568A-11741	Sequence 11741, A
406	29	59.2	1140	9	US-10-055-877-215	Sequence 215, App	479	28	57.1	274	11	US-11-087-099-258	Sequence 258, App
407	29	59.2	1184	11	US-11-096-568A-2858	Sequence 29858, A	480	28	57.1	284	11	US-11-096-568A-11740	Sequence 11740, A
408	29	59.2	1192	9	US-10-204-639-67	Sequence 67, Appl	481	28	57.1	284	11	US-11-188-298-1033	Sequence 1033, Ap
409	29	59.2	1199	9	US-10-922-166-15	Sequence 15, Appl	482	28	57.1	285	11	US-11-087-099-3152	Sequence 3152, Ap
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411	29	59.2	1230	11	US-11-087-099-8922	Sequence 8922, Ap	484	28	57.1	291	11	US-11-045-004-2539	Sequence 2539, Ap
412	29	59.2	1230	11	US-11-188-298-1685	Sequence 1685, Ap	485	28	57.1	291	11	US-11-188-298-974	Sequence 974, App
413	29	59.2	1230	11	US-11-188-298-8275	Sequence 8275, Ap	486	28	57.1	301	11	US-11-096-568A-24006	Sequence 24006, A
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415	29	59.2	1717	11	US-11-182-016-20	Sequence 20, Appl	488	28	57.1	319	11	US-11-188-298-4013	Sequence 4001, Ap
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419	29	59.2	2803	11	US-11-124-367A-445	Sequence 445, App	492	28	57.1	342	11	US-11-087-099-3537	Sequence 3537, Ap
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426	28.5	58.2	836	11	US-11-050-857-988	Sequence 988, App	499	28	57.1	359	9	US-10-784-004-738	Sequence 738, App
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434	28	57.1	112	11	US-11-087-099-5048	Sequence 5048, Ap	507	28	57.1	368	11	US-11-188-298-13812	Sequence 13812, A
435	28	57.1	116	9	US-10-475-075-305	Sequence 305, App	508	28	57.1	368	11	US-11-188-298-18698	Sequence 18698, A
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546	28	57.1	383	11	US-11-079-463-5452	Sequence 5452, App	619	28	57.1	496	11	US-11-172-740-576	Sequence 576, App
547	28	57.1	384	11	US-11-188-298-8063	Sequence 8063, App	620	28	57.1	496	11	US-11-188-298-8567	Sequence 8567, App
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552	28	57.1	391	11	US-11-188-298-4820	Sequence 4820, App	625	28	57.1	515	9	US-10-915-002-240	Sequence 240, App
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559	28	57.1	394	11	US-11-188-298-20910	Sequence 20910, A	632	28	57.1	567	11	US-11-188-298-4159	Sequence 4159, App
560	28	57.1	394	11	US-11-188-298-21915	Sequence 21915, A	633	28	57.1	571	11	US-11-072-512-2414	Sequence 2414, App
561	28	57.1	395	11	US-11-188-298-311	Sequence 311, App	634	28	57.1	579	9	US-10-501-035-217	Sequence 317, App
562	28	57.1	396	11	US-11-188-298-936	Sequence 936, App	635	28	57.1	579	11	US-11-261-346-2	Sequence 2, App1
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581	28	57.1	407	11	US-11-188-298-5916	Sequence 5916, App	654	28	57.1	759	11	US-11-087-099-3039	Sequence 3039, App
582	28	57.1	410	11	US-11-188-298-19739	Sequence 19739, A	655	28	57.1	808	11	US-11-288-493-70	Sequence 70, App1
583	28	57.1	413	11	US-11-188-298-4687	Sequence 4687, App	656	28	57.1	812	11	US-11-096-568A-30446	Sequence 30446, A
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589	28	57.1	418	9	US-11-188-298-2525	Sequence 2525, App	662	28	57.1	836	11	US-11-113-751-2	Sequence 2, App1
590	28	57.1	418	11	US-10-793-626-1388	Sequence 1288, App	663	28	57.1	869	11	US-11-113-751-14	Sequence 14, App1
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593	28	57.1	419	11	US-11-113-202-2	Sequence 2, App1	666	28	57.1	1081	11	US-11-113-751-38	Sequence 38, App1
594	28	57.1	419	11	US-11-113-202-4	Sequence 4, App1	667	28	57.1	1083	11	US-11-113-751-40	Sequence 40, App1
595	28	57.1	419	11	US-11-113-202-23	Sequence 23, App1	668	28	57.1	1104	11	US-11-072-512-2506	Sequence 2506, App
596	28	57.1	422	11	US-11-188-298-1399	Sequence 1399, App	669	28	57.1	1110	11	US-11-113-751-14	Sequence 14, App1
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604	28	57.1	443	9	US-11-087-099-7043	Sequence 7043, App	677	28	57.1	1153	11	US-11-113-751-44	Sequence 44, App1
605	28	57.1	455	11	US-10-467-657-5828	Sequence 5828, App	678	28	57.1	1159	11	US-11-113-751-27	Sequence 27, App1

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681	28	57.1	1255	11	US-11-022-562-213	Sequence 213, App	754	27	55.1	201	11	US-11-203-251A-95	Sequence 95, Appl
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691	28	57.1	5179	11	US-11-108-172-1068	Sequence 1068, Ap	764	27	55.1	236	9	US-10-496-284-62	Sequence 62, Appl
692	28	57.1	7968	11	US-11-143-980-49	Sequence 49, Appl	765	27	55.1	236	11	US-11-087-039-1180	Sequence 1180, Ap
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984 27 55.1 472 11 US-11-092-353-3 Sequence 3, App1
985 27 55.1 473 11 US-11-087-099-9042 Sequence 9042, Ap
986 27 55.1 473 11 US-11-188-298-19361 Sequence 19361, A
987 27 55.1 475 11 US-11-096-568A-11091 Sequence 11091, A
988 27 55.1 475 11 US-11-096-568A-21668 Sequence 21668, A
989 27 55.1 478 11 US-11-096-568A-21667 Sequence 21667, A
990 27 55.1 479 11 US-11-096-568A-19818 Sequence 19818, A
991 27 55.1 479 11 US-11-096-568A-21666 Sequence 21666, A
992 27 55.1 481 11 US-11-079-463-6068 Sequence 6068, Ap
993 27 55.1 482 11 US-11-096-568A-27735 Sequence 27735, A
994 27 55.1 491 11 US-11-188-298-1903 Sequence 1903, Ap
995 27 55.1 495 11 US-11-188-298-5237 Sequence 5237, Ap
996 27 55.1 497 11 US-11-188-298-16695 Sequence 16695, A
997 27 55.1 500 11 US-11-096-568A-29830 Sequence 29830, A
998 27 55.1 500 11 US-11-188-298-8362 Sequence 8362, Ap
999 27 55.1 501 11 US-11-096-568A-20831 Sequence 20831, A
1000 27 55.1 503 9 US-10-873-528-74 Sequence 74, App1
```

ALIGNMENTS

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RESULT 1
US-10-530-061-1714
; Sequence 1714, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1714
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1714

Query Match          100.0%; Score 49; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0064;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SOUTHWOOD, SCOTT
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1715
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1715

Query Match          100.0%; Score 49; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0064;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 3
US-10-511-814-8
; Sequence 8, Application US/10511814
; Publication No. US20060088472A1
; GENERAL INFORMATION:
; APPLICANT: McCance, Dennis
; APPLICANT: Westbrook, III, Thomas F.
; TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
; FILE REFERENCE: 21108.0016U2
; CURRENT APPLICATION NUMBER: US/10/511,814
; CURRENT FILING DATE: 2004-10-19
; PRIOR APPLICATION NUMBER: PCT/US03/12667
; PRIOR FILING DATE: 2003-04-21
; PRIOR APPLICATION NUMBER: 60/374,245
; PRIOR FILING DATE: 2002-04-19
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:/Note =
; OTHER INFORMATION: Synthetic Construct
US-10-511-814-8

Query Match          100.0%; Score 49; DB 8; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.039;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 2
US-10-530-061-1715
; Sequence 1715, Application US/10530061
```

```
RESULT 4
US-10-511-814-11
; Sequence 11, Application US/10511814
; Publication No. US20060088472A1
; GENERAL INFORMATION:
; APPLICANT: McCance, Dennis
```

```
; APPLICANT: Westbrook, III, Thomas F.
; TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
; FILE REFERENCE: 21108.001602
; CURRENT APPLICATION NUMBER: US/10/511,814
; CURRENT FILING DATE: 2004-10-19
; PRIOR APPLICATION NUMBER: PCT/US03/12667
; PRIOR FILING DATE: 2003-04-21
; PRIOR APPLICATION NUMBER: 60/374,245
; PRIOR FILING DATE: 2002-04-19
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:/Note =
; OTHER INFORMATION: Synthetic Construct
US-10-511-814-11
```

```
Query Match          100.0%; Score 49; DB 8; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.039;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 GTLGIIVCP1 9
        |||||
Db       85 GTLGIIVCP1 93
```

```
RESULT 5
US-10-530-253-14
; Sequence 14, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 14
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-14

Query Match          100.0%; Score 49; DB 9; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.039;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GTLGIIVCP1 9
        |||||
Db       85 GTLGIIVCP1 93

RESULT 6
US-11-179-478-4
; Sequence 4, Application US/11179478
; Publication No. US20050249745A1
; GENERAL INFORMATION:
; APPLICANT: BURGER, Alexander
; APPLICANT: HALLER, Michael
; TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
; TITLE OF INVENTION: FORMULATIONS AND METHODS OF USE
; NUMBER OF SEQUENCES: 28
```

```
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY & LARDNER
; STREET: 3000 K Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/11/179,478
; FILING DATE: 13-JULY-2005
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/10/654,129
; FILING DATE: 04-Sep-2003
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Sandertock, Colin G.
; REGISTRATION NUMBER: 31,298
; REFERENCE//DOCKET NUMBER: 37067/102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 672-5300
; TELEFAX: (202) 672-5399
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-11-179-478-4
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Query Match          100.0%; Score 49; DB 11; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.039;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1 GTLGIIVCP1 9
        |||||
Db       85 GTLGIIVCP1 93
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```
RESULT 7
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-1
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```
Query Match          100.0%; Score 49; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.093;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 GTLGVCP1 9
|||||
Db 235 GTLGVCP1 243

RESULT 8
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-3

Query Match 100.0%; Score 49; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.093;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGVCP1 9
|||||
Db 235 GTLGVCP1 243

RESULT 9
US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-7

Query Match 100.0%; Score 49; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.093;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGVCP1 9
|||||
Db 85 GTLGVCP1 93

RESULT 10
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-9

Query Match 100.0%; Score 49; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.093;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGVCP1 9
|||||
Db 85 GTLGVCP1 93

RESULT 11
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
; APPLICANT: PANG, XIAOWU
; APPLICANT: Jeffrey K. Pullen
; TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
; FILE REFERENCE: 116620-003
; CURRENT APPLICATION NUMBER: US/11/192,923A
; PRIOR FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: CN 03115272.4
; PRIOR FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: CN 03115273.2
; PRIOR FILING DATE: 2003-01-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-11-192-923A-2

Query Match 100.0%; Score 49; DB 11; Length 256;
Best Local Similarity 100.0%; Pred. No. 0.096;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGVCP1 9
|||||
Db 85 GTLGVCP1 93

RESULT 12
US-10-530-253-30
; Sequence 30, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry

```
/ APPLICANT: Jeffrey K. Pullen
/ APPLICANT: Susan P. McElhinney
/ TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
/ FILE REFERENCE: 00630/100M137-US2
/ CURRENT APPLICATION NUMBER: US/10/530,253
/ PRIOR APPLICATION NUMBER: PCT/US2003/031726
/ PRIOR FILING DATE: 2003-10-02
/ PRIOR APPLICATION NUMBER: US 60/415,929
/ PRIOR FILING DATE: 2002-10-03
/ NUMBER OF SEQ ID NOS: 65
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 30
/ LENGTH: 99
/ TYPE: PRT
/ ORGANISM: Human papillomavirus type 35
US-10-530-253-30
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```
Query Match      83.7%; Score 41; DB 9; Length 99;
Best Local Similarity 87.5%; Pred. No. 1.1;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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```
QY      1 GTLGI VCP 8
         |||:|||||
DB      86 GTFGI VCP 93
```

RESULT 13

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US-10-485-517-372
/ Sequence 372, Application US/10485517
/ Publication No. US20050256299A1
/ GENERAL INFORMATION:
/ APPLICANT: University of Sheffield
/ APPLICANT: Biosynex Incorporated
/ APPLICANT: Foster, Simon
/ TITLE OF INVENTION: Antigenic Polypeptides
/ FILE REFERENCE: P100629WO
/ CURRENT APPLICATION NUMBER: US/10/485,517
/ CURRENT FILING DATE: 2004-02-02
/ PRIOR APPLICATION NUMBER: GB 0118825.9
/ PRIOR FILING DATE: 2001-08-02
/ PRIOR APPLICATION NUMBER: GB 0200349.9
/ PRIOR FILING DATE: 2002-01-09
/ NUMBER OF SEQ ID NOS: 424
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 372
/ LENGTH: 82
/ TYPE: PRT
/ ORGANISM: Staphylococcus aureus
US-10-485-517-372
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Query Match      79.6%; Score 39; DB 9; Length 82;
Best Local Similarity 75.0%; Pred. No. 2.2;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1 GTLGI VCP 8
         |||:|||||
DB      14 GIVGV VCP 21
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RESULT 14

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US-10-530-061-1723
/ Sequence 1723, Application US/10530061
/ Publication No. US20060079453A1
/ GENERAL INFORMATION:
/ APPLICANT: SIDNEY, JOHN
/ APPLICANT: SOUTHWOOD, SCOTT
/ APPLICANT: SETTE, ALESSANDRO
/ TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
/ FILE REFERENCE: 2060.033US02/EKS/M-M
/ CURRENT APPLICATION NUMBER: US/10/530,061
/ CURRENT FILING DATE: 2005-04-04
```

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/ PRIOR APPLICATION NUMBER: PCT/US03/31308
/ PRIOR FILING DATE: 2003-10-03
/ PRIOR APPLICATION NUMBER: 60/416,207
/ PRIOR FILING DATE: 2002-10-03
/ PRIOR APPLICATION NUMBER: 60/417,269
/ PRIOR FILING DATE: 2002-10-08
/ NUMBER OF SEQ ID NOS: 2503
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 1723
/ LENGTH: 15
/ TYPE: PRT
/ ORGANISM: Human papillomavirus
US-10-530-061-1723
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```
Query Match      75.5%; Score 37; DB 9; Length 15;
Best Local Similarity 75.0%; Pred. No. 1;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
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```
QY      1 GTLGI VCP 8
         |||:|||||
DB      5 GSFGI VCP 12
```

RESULT 15

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US-10-530-253-28
/ Sequence 28, Application US/10530253
/ Publication No. US20060014926A1
/ GENERAL INFORMATION:
/ APPLICANT: Casasetti, Maria C.
/ APPLICANT: Smith, Larry
/ APPLICANT: Jeffrey K. Pullen
/ TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
/ FILE REFERENCE: 00630/100M137-US2
/ CURRENT APPLICATION NUMBER: US/10/530,253
/ CURRENT FILING DATE: 2005-04-04
/ PRIOR APPLICATION NUMBER: PCT/US2003/031726
/ PRIOR FILING DATE: 2003-10-02
/ PRIOR APPLICATION NUMBER: US 60/415,929
/ PRIOR FILING DATE: 2002-10-03
/ NUMBER OF SEQ ID NOS: 65
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 28
/ LENGTH: 98
/ TYPE: PRT
/ ORGANISM: Human papillomavirus type 31
US-10-530-253-28
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```
Query Match      75.5%; Score 37; DB 9; Length 98;
Best Local Similarity 75.0%; Pred. No. 6.2;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 GTLGI VCP 8
         |||:|||||
DB      85 GSFGI VCP 92
```

RESULT 16

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US-11-106-399-10
/ Sequence 10, Application US/11106399
/ Publication No. US2006002892A1
/ GENERAL INFORMATION:
/ APPLICANT: MATHEW, PORUNELLOOR A.
/ APPLICANT: BOLES, KENT S.
/ TITLE OF INVENTION: ILT USES THEREOF IN IMMUNE SYSTEM MODULATION
/ FILE REFERENCE:
/ CURRENT APPLICATION NUMBER: US/11/106,399
/ CURRENT FILING DATE: 2005-04-14
/ NUMBER OF SEQ ID NOS: 10
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 10
/ LENGTH: 179
/ TYPE: PRT
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ORGANISM: Homo sapiens
US-11-106-399-10

Query Match 75.5%; Score 37; DB 11; Length 179;
Best Local Similarity 85.7%; Pred. No. 11;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTLGIVC 7
| | | | |
14 GTLGIVC 20

RESULT 17
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-5

Query Match 75.5%; Score 37; DB 9; Length 248;
Best Local Similarity 88.9%; Pred. No. 15;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GTLGIVCP 9
| | | | |
Db 235 GTLGIVCP 243

RESULT 18
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-11

Query Match 75.5%; Score 37; DB 9; Length 248;
Best Local Similarity 88.9%; Pred. No. 15;

Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GTLGIVCP 9
| | | | |
Db 85 GTLGIVCP 93

RESULT 19
US-11-188-298-3455
; Sequence 3455, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 3455
; LENGTH: 486
; TYPE: PRT
; ORGANISM: Pseudomonas putida
US-11-188-298-3455

Query Match 75.5%; Score 37; DB 11; Length 486;
Best Local Similarity 62.5%; Pred. No. 29;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 GTLGIVCP 8
| : | : | : |
Db 146 GTLGIVCP 153

RESULT 20
US-11-114-962-4
; Sequence 4, Application US/11114962
; Publication No. US20060030694A1
; GENERAL INFORMATION:
; APPLICANT: Kitajewski, Jan
; APPLICANT: Shawber, Carrie
; APPLICANT: Punahashi, Yasuhiro
; TITLE OF INVENTION: Notch-Based Fusion Proteins And Uses Thereof
; FILE REFERENCE: 0575/71308-A
; CURRENT APPLICATION NUMBER: US/11/114,962
; CURRENT FILING DATE: 2005-04-26
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 4
; LENGTH: 1379
; TYPE: PRT
; ORGANISM: Mus musculus
US-11-114-962-4

Query Match 75.5%; Score 37; DB 11; Length 1379;
Best Local Similarity 66.7%; Pred. No. 77;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 GTLGIVCP 9
| | | | |
Db 1152 GTLGIVCP 1160

RESULT 21
US-10-530-061-1726
; Sequence 1726, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES


```
FILE REFERENCE: 2060.03US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530.061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 1726
LENGTH: 15
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-1726
```

```
Query Match 73.5%; Score 36; DB 9; Length 15;
Best Local Similarity 75.0%; Pred. No. 1.6;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 GTLGI VCP 8
DB 7 GTVNI VCP 14
```

```
RESULT 22
US-10-530-061-1727
Sequence 1727, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SIDNEY, JOHN
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.03US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530.061
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 1727
LENGTH: 15
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-1727

Query Match 73.5%; Score 36; DB 9; Length 15;
Best Local Similarity 75.0%; Pred. No. 1.6;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 GTLGI VCP 8
DB 5 GTVNI VCP 12
```

```
RESULT 23
US-10-530-061-1733
Sequence 1733, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.03US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530.061
CURRENT FILING DATE: 2005-04-04
```

```
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 1733
LENGTH: 15
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-1733
```

```
Query Match 73.5%; Score 36; DB 9; Length 15;
Best Local Similarity 75.0%; Pred. No. 1.6;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 GTLGI VCP 8
DB 7 GTLQIVCP 14
```

```
RESULT 24
US-10-530-061-1734
Sequence 1734, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SIDNEY, JOHN
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.03US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530.061
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 1734
LENGTH: 15
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-1734
```

```
Query Match 73.5%; Score 36; DB 9; Length 15;
Best Local Similarity 75.0%; Pred. No. 1.6;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 GTLGI VCP 8
DB 5 GTLQIVCP 12
```

```
RESULT 25
US-10-530-253-29
Sequence 29, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Casasetti, Maria C.
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530.253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
```

PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 29
LENGTH: 97
TYPE: PRT
ORGANISM: Human papillomavirus type 33
US-10-530-253-29

Query Match 73.5%; Score 36; DB 9; Length 97;
Best Local Similarity 75.0%; Pred. No. 9.3; Indels 0; Gaps 0;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 GTGIVCP 8
DB 85 GTVNVICP 92

RESULT 26
US-10-530-253-34
Sequence 34, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Casasetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 34
LENGTH: 99
TYPE: PRT
ORGANISM: Human papillomavirus type 52
US-10-530-253-34

Query Match 73.5%; Score 36; DB 9; Length 99;
Best Local Similarity 75.0%; Pred. No. 9.5;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 GTGIVCP 8
DB 87 GTQVWCP 94

RESULT 27
US-11-188-298-18750
Sequence 18750, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53452)B
CURRENT APPLICATION NUMBER: US/11/188,298
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 18750
LENGTH: 555
TYPE: PRT
ORGANISM: Azotobacter vinelandii
US-11-188-298-18750

Query Match 73.5%; Score 36; DB 11; Length 555;

Best Local Similarity 50.0%; Pred. No. 49;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
QY 1 GTGIVCP 8
DB 215 GTVGVICP 222

RESULT 28
US-11-188-298-4463
Sequence 4463, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53452)B
CURRENT APPLICATION NUMBER: US/11/188,298
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 4463
LENGTH: 788
TYPE: PRT
ORGANISM: Agrobacterium tumefaciens str. C58 (U. Washington)
US-11-188-298-4463

Query Match 73.5%; Score 36; DB 11; Length 788;
Best Local Similarity 75.0%; Pred. No. 69;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 GTGIVCP 8
DB 647 GTVGVICP 654

RESULT 29
US-11-188-298-7394
Sequence 7394, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53452)B
CURRENT APPLICATION NUMBER: US/11/188,298
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 7394
LENGTH: 798
TYPE: PRT
ORGANISM: Agrobacterium tumefaciens str. C58
US-11-188-298-7394

Query Match 73.5%; Score 36; DB 11; Length 798;
Best Local Similarity 75.0%; Pred. No. 70;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 GTGIVCP 8
DB 657 GTVGVICP 664

RESULT 30
US-11-072-512-2253
Sequence 2253, Application US/11072512
Publication No. US20060029945A1
GENERAL INFORMATION:
APPLICANT: ISOGAI, TAKAO
APPLICANT: SUGIYAMA, TOMOYASU
APPLICANT: OTSUKI, TETSUJI
APPLICANT: WAKAMATSU, AI

```

; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZURO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTYOKU
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512
; PRIOR FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2253
; LENGTH: 204
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-11-072-512-2253

Query Match
Best Local Similarity 72.4%; Score 35.5; DB 11; Length 204;
Matches 8; Conservative 1; Mismatches 0; Indels 1; Gaps 1;

QY 1 GTL-GIVCPI 9
DB 107 GTLSGWCPI 116

RESULT 31
; US-11-055-822-788
; Sequence 788, Application US/11055822
; Publication No. US20050260707A1
; GENERAL INFORMATION:
; APPLICANT: Pompeius, Markus
; APPLICANT: Kroeger, Burkhard
; APPLICANT: Schroeder, Hartwig
; APPLICANT: Zeidler, Oskar
; APPLICANT: Habberhauer, Gregor
; TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING
; FILE REFERENCE: BGI-121CPN
; CURRENT APPLICATION NUMBER: US/11/055,822
; CURRENT FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: 09/606,740
; PRIOR FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: 60/141,031
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: 60/142,101
; PRIOR FILING DATE: 1999-07-02
; PRIOR APPLICATION NUMBER: 60/148,613
; PRIOR FILING DATE: 1999-08-12
; PRIOR APPLICATION NUMBER: 60/187,970
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: DE 19930476.9
; PRIOR FILING DATE: 1999-07-01
; PRIOR APPLICATION NUMBER: DE 19931415.2
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931418.7
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931419.5
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931420.9
```

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; PRIOR FILING DATE: 1999-07-08
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1158
; SEQ ID NO 788
; LENGTH: 162
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
; US-11-055-822-788

Query Match
Best Local Similarity 71.4%; Score 35; DB 11; Length 162;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 LGIVCPI 9
DB 148 LGIVCPL 154

RESULT 32
; US-11-188-298-8523
; Sequence 8523, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 8523
; LENGTH: 162
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum ATCC 13032
; US-11-188-298-8523

Query Match
Best Local Similarity 71.4%; Score 35; DB 11; Length 162;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 LGIVCPI 9
DB 148 LGIVCPL 154

RESULT 33
; US-11-188-298-10878
; Sequence 10878, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 10878
; LENGTH: 163
; TYPE: PRT
; ORGANISM: Corynebacterium efficiens YS-314
; US-11-188-298-10878

Query Match
Best Local Similarity 71.4%; Score 35; DB 11; Length 163;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
RESULT 34
US-11-188-298-12303
; Sequence 12303, Application US/11188298
; Publication No. US2006075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; PRIOR FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 12303
; LENGTH: 163
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum ATCC 13032
US-11-188-298-12303

Query Match
Best Local Similarity 71.4%; Score 35; DB 11; Length 163;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 GTGIVCP 9
DB 149 GGVGVCP 155

RESULT 35
US-11-098-686-11340
; Sequence 11340, Application US/11098686
; Publication No. US20060024696A1
; GENERAL INFORMATION:
; APPLICANT: Kapur, Vivek and Gebhart, Connie J.
; TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
; FILE REFERENCE: 09531-128001
; CURRENT APPLICATION NUMBER: US/11/098,686
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31318
; PRIOR FILING DATE: 2003-10-01
; PRIOR APPLICATION NUMBER: US 60/416,395
; PRIOR FILING DATE: 2002-10-04
; NUMBER OF SEQ ID NOS: 11433
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11340
; LENGTH: 471
; TYPE: PRT
; ORGANISM: Lawsonia intracellularis
US-11-098-686-11340

Query Match
Best Local Similarity 71.4%; Score 35; DB 11; Length 471;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 GTGIVCP 9
DB 244 GDLGICPL 252

RESULT 36
US-11-188-298-8186
; Sequence 8186, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; PRIOR FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
```

```
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 8186
; LENGTH: 484
; TYPE: PRT
; ORGANISM: Comamonas testosteroni
US-11-188-298-8186

Query Match
Best Local Similarity 71.4%; Score 35; DB 11; Length 484;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 GTGIVCP 8
DB 144 GGVGVCP 151

RESULT 37
US-11-188-298-15333
; Sequence 15333, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; PRIOR FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 15333
; LENGTH: 485
; TYPE: PRT
; ORGANISM: Burkholderia cepacia
US-11-188-298-15333

Query Match
Best Local Similarity 71.4%; Score 35; DB 11; Length 485;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 GTGIVCP 8
DB 145 GGVGVCP 152

RESULT 38
US-11-188-298-16022
; Sequence 16022, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; PRIOR FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 16022
; LENGTH: 486
; TYPE: PRT
; ORGANISM: Comamonas sp. JS765
US-11-188-298-16022

Query Match
Best Local Similarity 71.4%; Score 35; DB 11; Length 486;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 GTGIVCP 8
DB 146 GGVGVCP 153

RESULT 39
```

```
US-11-188-298-10771
; Sequence 10771, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; PRIOR FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 10771
; LENGTH: 503
; TYPE: PRT
; ORGANISM: Ralstonia metallidurans
US-11-188-298-10771

Query Match          71.4%; Score 35; DB 11; Length 503;
Best Local Similarity 50.0%; Pred. No. 69;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 GTLGVICP 8
| : |||
Db 163 GVGVCIP 170

RESULT 40
US-11-096-568A-26450
; Sequence 26450, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 26450
; LENGTH: 535
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(535)
; OTHER INFORMATION: Ceres Seq. ID no. 1356660
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (432)..(432)
; OTHER INFORMATION: Xaa is any aa, unknown or other
US-11-096-568A-26450

Query Match          71.4%; Score 35; DB 11; Length 535;
Best Local Similarity 66.7%; Pred. No. 73;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GTLGVICP 9
| : |||
Db 38 GVLGTCPI 46

RESULT 41
US-11-096-568A-26449
; Sequence 26449, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01

NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 26449
; LENGTH: 592
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(592)
; OTHER INFORMATION: Ceres Seq. ID no. 13566659
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (489)..(489)
; OTHER INFORMATION: Xaa is any aa, unknown or other
US-11-096-568A-26449

Query Match          71.4%; Score 35; DB 11; Length 592;
Best Local Similarity 66.7%; Pred. No. 80;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GTLGVICP 9
| : |||
Db 95 GVLGTCPI 103

RESULT 42
US-11-096-568A-31774
; Sequence 31774, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 31774
; LENGTH: 1003
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(1003)
; OTHER INFORMATION: Ceres Seq. ID no. 13568777
US-11-096-568A-31774

Query Match          71.4%; Score 35; DB 11; Length 1003;
Best Local Similarity 66.7%; Pred. No. 1.3e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 GTLGVICP 9
| : |||
Db 383 GEGVCIP 391

RESULT 43
US-11-096-568A-31773
; Sequence 31773, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptide
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 31773
; LENGTH: 1023
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc_feature
```

```
; LOCATION: (1)..(1023)
; OTHER INFORMATION: Ceres Seq. ID no. 13588776
US-11-096-568A-31773
```

```
Query Match          71.4%; Score 35; DB 11; Length 1023;
Best Local Similarity 66.7%; Pred. No. 1.4e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
Qy 1 GTLGIVCP 9
    |||:|
Db 403 GEGGVCP 411
```

```
RESULT 44
US-11-096-568A-31772
; Sequence 31772, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
```

```
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
```

```
; SEQ ID NO 31772
```

```
; LENGTH: 1054
```

```
; TYPE: PRT
```

```
; ORGANISM: Arabidopsis thaliana
```

```
; NAME/KEY: misc_feature
```

```
; LOCATION: (1)..(1054)
```

```
; OTHER INFORMATION: Ceres Seq. ID no. 13588775
US-11-096-568A-31772
```

```
Query Match          71.4%; Score 35; DB 11; Length 1054;
Best Local Similarity 66.7%; Pred. No. 1.4e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
Qy 1 GTLGIVCP 9
    |||:|
Db 434 GEGGVCP 442
```

```
RESULT 45
US-11-188-298-5983
```

```
; Sequence 5983, Application US/11188298
```

```
; Publication No. US20060075522A1
```

```
; GENERAL INFORMATION:
```

```
; APPLICANT: Abad, Mark S. et al.
```

```
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
```

```
; FILE REFERENCE: 38-21(53452)B
```

```
; CURRENT APPLICATION NUMBER: US/11/188,298
```

```
; CURRENT FILING DATE: 2005-07-22
```

```
; PRIOR APPLICATION NUMBER: 60/592,978
```

```
; PRIOR FILING DATE: 2004-07-31
```

```
; NUMBER OF SEQ ID NOS: 22569
```

```
; SEQ ID NO 5983
```

```
; LENGTH: 435
```

```
; TYPE: PRT
```

```
; ORGANISM: Saccharomyces cerevisiae
```

```
US-11-188-298-5983
```

```
Query Match          69.4%; Score 34; DB 11; Length 435;
Best Local Similarity 62.5%; Pred. No. 91;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
Qy 1 GTLGIVCP 8
    |||:|
Db 155 GVCGLICP 162
```

```
RESULT 46
```

```
US-11-188-298-630
; Sequence 630, Application US/11188298
```

```
; Publication No. US20060075522A1
```

```
; GENERAL INFORMATION:
```

```
; APPLICANT: Abad, Mark S. et al.
```

```
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
```

```
; FILE REFERENCE: 38-21(53452)B
```

```
; CURRENT APPLICATION NUMBER: US/11/188,298
```

```
; CURRENT FILING DATE: 2005-07-22
```

```
; PRIOR APPLICATION NUMBER: 60/592,978
```

```
; PRIOR FILING DATE: 2004-07-31
```

```
; NUMBER OF SEQ ID NOS: 22569
```

```
; SEQ ID NO 630
```

```
; LENGTH: 491
```

```
; TYPE: PRT
```

```
; ORGANISM: Candida glabrata
```

```
US-11-188-298-630
```

```
Query Match          69.4%; Score 34; DB 11; Length 491;
Best Local Similarity 62.5%; Pred. No. 1e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
Qy 1 GTLGIVCP 8
    |||:|
Db 149 GVCGLICP 156
```

```
RESULT 47
US-11-188-298-6223
```

```
; Sequence 6223, Application US/11188298
```

```
; Publication No. US20060075522A1
```

```
; GENERAL INFORMATION:
```

```
; APPLICANT: Abad, Mark S. et al.
```

```
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
```

```
; FILE REFERENCE: 38-21(53452)B
```

```
; CURRENT APPLICATION NUMBER: US/11/188,298
```

```
; CURRENT FILING DATE: 2005-07-22
```

```
; PRIOR APPLICATION NUMBER: 60/592,978
```

```
; PRIOR FILING DATE: 2004-07-31
```

```
; NUMBER OF SEQ ID NOS: 22569
```

```
; SEQ ID NO 6223
```

```
; LENGTH: 497
```

```
; TYPE: PRT
```

```
; ORGANISM: Saccharomyces cerevisiae
```

```
US-11-188-298-6223
```

```
Query Match          69.4%; Score 34; DB 11; Length 497;
Best Local Similarity 62.5%; Pred. No. 1e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
Qy 1 GTLGIVCP 8
    |||:|
Db 155 GVCGLICP 162
```

```
RESULT 48
US-11-188-298-3033
```

```
; Sequence 3033, Application US/11188298
```

```
; Publication No. US20060075522A1
```

```
; GENERAL INFORMATION:
```

```
; APPLICANT: Abad, Mark S. et al.
```

```
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
```

```
; FILE REFERENCE: 38-21(53452)B
```

```
; CURRENT APPLICATION NUMBER: US/11/188,298
```

```
; CURRENT FILING DATE: 2005-07-22
```

```
; PRIOR APPLICATION NUMBER: 60/592,978
```

```
; PRIOR FILING DATE: 2004-07-31
```

```
; NUMBER OF SEQ ID NOS: 22569
```

```
; SEQ ID NO 3033
```

```
; LENGTH: 796
```

```
; TYPE: PRT
```

```
; ORGANISM: Burkholderia fungorum
```

```
US-11-188-298-3033
```

Search completed: May 5, 2006, 08:40:43
Job time : 9.4 secs

Query Match 69.4%; Score 34; DB 11; Length 796;
Best Local Similarity 62.5%; Pred. No. 1.6e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 GTLGIVCP 8
|:||||
DB 656 GVIGIACP 663

RESULT 49

US-11-188-298-10633
; Sequence 10633, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; PRIOR FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 10633
; LENGTH: 798
; TYPE: PRT
; ORGANISM: Burkholderia fungorum
US-11-188-298-10633

Query Match 69.4%; Score 34; DB 11; Length 798;
Best Local Similarity 62.5%; Pred. No. 1.6e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 GTLGIVCP 8
|:||||
DB 658 GVIGIACP 665

RESULT 50

US-10-204-639-15
; Sequence 15, Application US/10204639
; Publication No. US20060063152A1
; GENERAL INFORMATION:
; APPLICANT: Osamu Ohara
; APPLICANT: Takahiro Nagase
; APPLICANT: Daisuke Nakajima
; TITLE OF INVENTION: NOVEL GENE AND PROTEIN ENCODED BY THE GENE
; FILE REFERENCE: PH-1416-PCT
; CURRENT APPLICATION NUMBER: US/10/204,639
; CURRENT FILING DATE: 2002-08-22
; PRIOR APPLICATION NUMBER: JP 2000-389742
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: JP 2001-095524
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: JP 2001-127066
; PRIOR FILING DATE: 2001-04-25
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 15
; LENGTH: 1051
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-204-639-15

Query Match 69.4%; Score 34; DB 9; Length 1051;
Best Local Similarity 75.0%; Pred. No. 2.1e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GTLGIVCP 8
|:||||
DB 937 GRLGIVCP 944

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